ARCTIC DATA COMPILATION AND APPRAISAL – VOLUME 15 Part 1

Beaufort Sea: Biological Oceanography – Fish 1896 through 1985

by
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1988

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES NO. 5

Canada

88-03877/

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

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1896 - 1985

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PREFACE

These catalogues are produced by the Data Assessment Division at the Institute of Ocean Sciences and the Native and Regulatory Affairs Division at the Freshwater Institute. Joint government and industry contract projects have catalogued marine data sets, their focus being mainly on oceanography and fisheries. Data quality appraisals are included to assist in establishing the usefulness of given data for particular analyses or purposes. The ratings reflect the confidence we place on interpretations of these data.

The appraisals will assist in establishing priorities for incorporating the most useful data in the national Marine Environmental Data Service (MEDS) archives. Additional uses of the catalogues include research planning and the provision of a resume of marine data sources for environmental assessments and land use planning.

The accelerating pace (until the 1985-86 drop in oil prices) of offshore development activity resulted in the need to review the sufficiency and suitability of available scientific information for design, regulatory and planning purposes. The review is a three stage process: 1) compilation and appraisal of the existing data sets; 2) analysis of the suitability of existing data sets for contributing answers to questions of concern, and; 3) analysis and interpretation of data and estimation of scientific confidence in the answer to the particular question. This fish catalogue for the Beaufort Sea represents part of the results of the first stage.

Brian Smiley and Larry de March
Scientific Editors
Arctic Data Compilation and
Appraisal Series

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ABSTRACT

Ratynski, R. A., L. de March, and B.D. Smiley. 1988. Arctic Data Compilation and Appraisal. Volume 15. Beaufort Sea: Biological Oceanography - Fish, 1896 - 1985. Can. Data Rep. Hydrogr. Ocean Sci. 5: (Vol. 15, Part 1, viii + 293 p., Part 2, viii + 271 p.).

This volume is one of a group of catalogues designed to compile and appraise marine data sets from the Canadian Arctic. For ease of reference, the group has been organized with its subject matter divided into three disciplines: physics, chemistry and biology. The Arctic has been divided arbitrarily into seven geographic areas to include, where possible, major oceanographic regions. The format has been structured to facilitate comparison between subjects and regions. With such a large undertaking, it is not possible to produce all reports at once. Therefore, catalogues in the series which are available currently are listed on the inside back cover of each volume.

Data collection continues in the Canadian Arctic and updates of the catalogues are planned. Readers are invited to submit corrections and additions in writing to either of the issuing establishments. Any corrections will be incorporated in the on-line computerized data set listing; they will be continuously available on request.

RÉSUMÉ

Ratynski, R.A., L. de March, and B.D. Smiley. 1988. Arctic Data Compilation and Appraisal. Volume 15. Beaufort Sea: Biological Oceanography - Fish, 1896 - 1985. Can. Data Rep. Hydrogr. Ocean Sci. 5: (Vol. 15, Part 1, viii + 293 p., Part 2, viii + 271 p.).

Le present volume fait partie d'un groupe de catalogues destinés à compiler et à évaluer les series de données marines sur l'Arctique canadien. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. L'Arctique a été divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions oceanographiques. Les catalogues sont présentés de façon à faciliter la comparison entre les sujets et les régions. La domaine est si vaste qu'il est impossible de fournier tous les catalogues en une seule fois. Les catalogues de la série actuellement disponsibles sont indiques à la fin de chaque volume à l'intérieur de la couverture.

La collecte de données est un processus permanent et il est prévu de mettre à jour les catalogues par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à les establissements auteurs. Les corrections seront traitées en direct sur ordinateur et incorporées aux listes qui pourront être obtenus sur demande.

ACKNOWLEDGEMENTS

The authors wish to thank the following people for providing information and data for the Beaufort Sea Fish Catalogue: W.A. Bond, K.T.J. Chang Kue, B W Fallis, D.V. Gillman, A.H. Kristofferson, M.J. Lawrence, D.K. McGowan and R.W. Moshenko of the Freshwater Institute; A. Mansfield, S.T. Leach and J.G. Hunter of the Arctic Biological Station; S. Byers of Dobrocky Sea Tech, S. Davies of North-South Consultants, E.J. Crossman of the Royal Ontario Museum, D.E. McAllister of the National Museum of Canada and T. Slaney .

D.B. Stewart reviewed the manuscript and provided constructive criticism for which we are grateful. A. Tompkins contributed to an early version of the manuscript. R. Lypka and R. Jestadt provided valuable assistance with manipulation of computerized data, especially the information from the Arctic Biological Station and the National Museum of Canada. We are extremely grateful to B. Hyman and C. Catt for the thankless task of preparing and correcting the seemingly endless versions of this report. Maps were prepared by ESL Environmental Sciences Ltd.

Funding for the preparation of this catalogue was provided by the Northern Oil and Gas Action Program (NOGAP). The Fisheries Joint Management Committee, established according to the terms of the Inuvialuit Final Agreement (Western Arctic Claim) provided funds for the inclusion of the data in the Oceanographic Data Information System (ODIS) an interactive computerized version of the Data Catalogues.

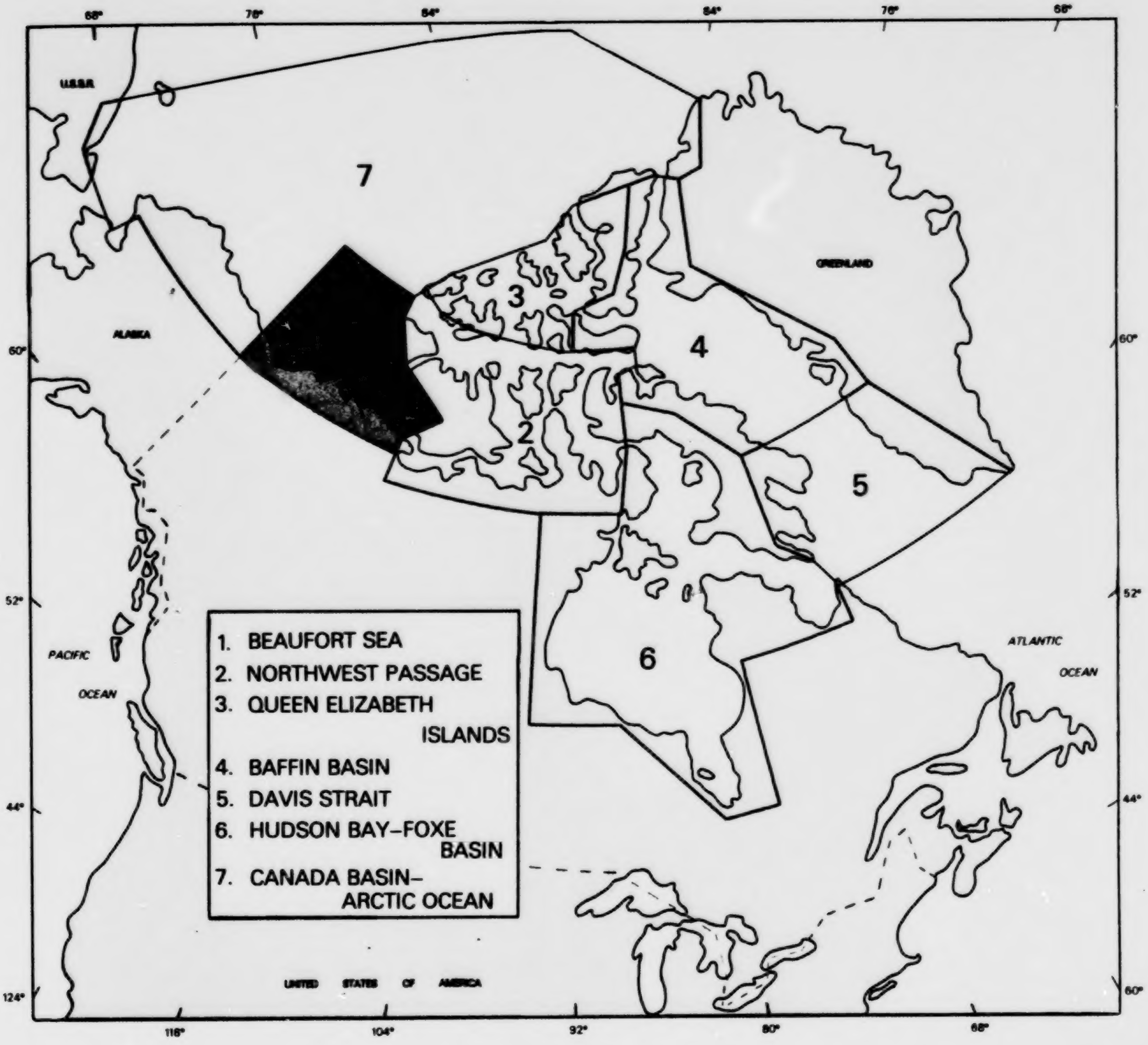

68°
76°
84°
84°
76°
68°
U.S.S.R.
7
3
ALASKA
GREENLAND
4
2
5
6
60°
52°
44°
124°
60°
52°
44°
60°
PACIFIC
OCEAN
ATLANTIC
OCEAN
1. BEAUFORT SEA
2. NORTHWEST PASSAGE
3. QUEEN ELIZABETH ISLANDS
4. BAFFIN BASIN
5. DAVIS STRAIT
6. HUDSON BAY-FOXE BASIN
7. CANADA BASIN-ARCTIC OCEAN
UNITED STATES OF AMERICA
116°
104°
92°
80°
68°

Fig.1. The Area 1 covered by this volume is shaded in this map.

ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 15 - PART 1

BEAUFORT SEA: BIOLOGICAL OCEANOGRAPHY - FISH

1819 - 1985

Volume 15: Beaufort Sea
Biological Oceanography - Fish

VOLUME ABSTRACT

This volume contains a catalogue of fish data sets from the southern Beaufort Sea. The catalogue includes all common parameters measured during field and laboratory studies ranging from the number of fish caught in a net, to age, sex or stomach contents. Times and locations of sampling are presented graphically on a yearly and seasonal basis. Also included are geographic and species indexes and alphabetic references.

Key words: anadromous fish, Beaufort Sea, biological oceanography, fish, fisheries, inventory, marine fish.

INTRODUCTION

Fish data from the Canadian Beaufort Sea have been collected by a relatively large number of agencies such as the Department of Fisheries and Oceans (primarily the Arctic Biological Station and the Freshwater Institute) other government agencies, museums and environmental consulting firms contracted by oil companies.

Some data sets were and still are proprietary or remain unpublished. Much of the data collected by the Arctic Biological Station is unpublished. In the case of one consulting firm the original data were destroyed deliberately. Prior to this compilation there has been no thorough attempt to consolidate these widely scattered data sets. It has been difficult for researchers and planners to obtain the information that was available for the region.

This catalogue of Beaufort Sea fish data sets lists all of the known data sets, a description of each and the status and location of each one. This information will allow all agencies to locate those data sets of particular interest. To make the catalogue more helpful, the quality of the data has been determined based on the evaluation of critical methodology details available in the data set documentation.

The objectives of the work were:

1) to search out, catalogue and fully describe all data concerning fish in the Beaufort Sea;

2) to catalogue information about other biological, chemical and physical data collected concurrently with the fish data;

3) to rate the quality of the fish data.

SUMMARY OF DATA COVERAGE

The Compilation contains 69 data sets representing data collected between 1896 and 1985. The catalogue will be updated in a few years, but in the interim a computer catalogue will be updated continuously. The computer version is kept at the Institute of Ocean Sciences and is accessible through the Data Assessment Division.

Most of the published reports and documents containing the data are archived in the Technical Records Holdings Library at the Institute of Ocean Sciences, Sidney, British Columbia.

STUDY AREA

The study area is defined as the southeast Beaufort Sea and Amundsen Gulf including all marine areas between longitude 117°W and 141°W and south of 76°N latitude. Minto Inlet and Prince Albert Sound are also included (Fig. 2).

Channels of the Mackenzie River are not included even if they were sampled at the same time as estuarine areas. Figure 3 indicates the specific locations referred to by name in the following pages.

HISTORICAL OVERVIEW

Historical trends in data collection

The first references to fish in the Beaufort Sea are in the reports of whalers and explorers. These are primarily anecdotal in nature and only of passing interest now. A few early data sets arose from scientific studies including those of the Hopkins Laboratory of Leland Stanford University in 1896 (Scofield 1899), the American Museum of Natural History in 1908 (Anderson 1913) and the Canadian Arctic Expedition from 1913 to 1918 (Johansen unpublished MS and Walters 1953).

Regular investigations of the fish in the Beaufort Sea began in 1955. These were undertaken by the Arctic Biological Station under the auspices of the Fisheries Research Board of Canada. This was the only agency studying fish in the region from 1955 to 1972.

There was an increase in fish sampling activity in 1972 in response to accelerated hydrocarbon exploration and related activities in the area. Work was further expanded in 1974 with a joint industry-government study called the Beaufort Sea Study. Purposes of the work conducted included basic distribution studies, site specific impact assessments, life history and migration studies.

With the decrease in oil related activity in 1985 and 1986, industry funded biological work decreased considerably. The Department of Fisheries and Oceans is continuing a number of projects.

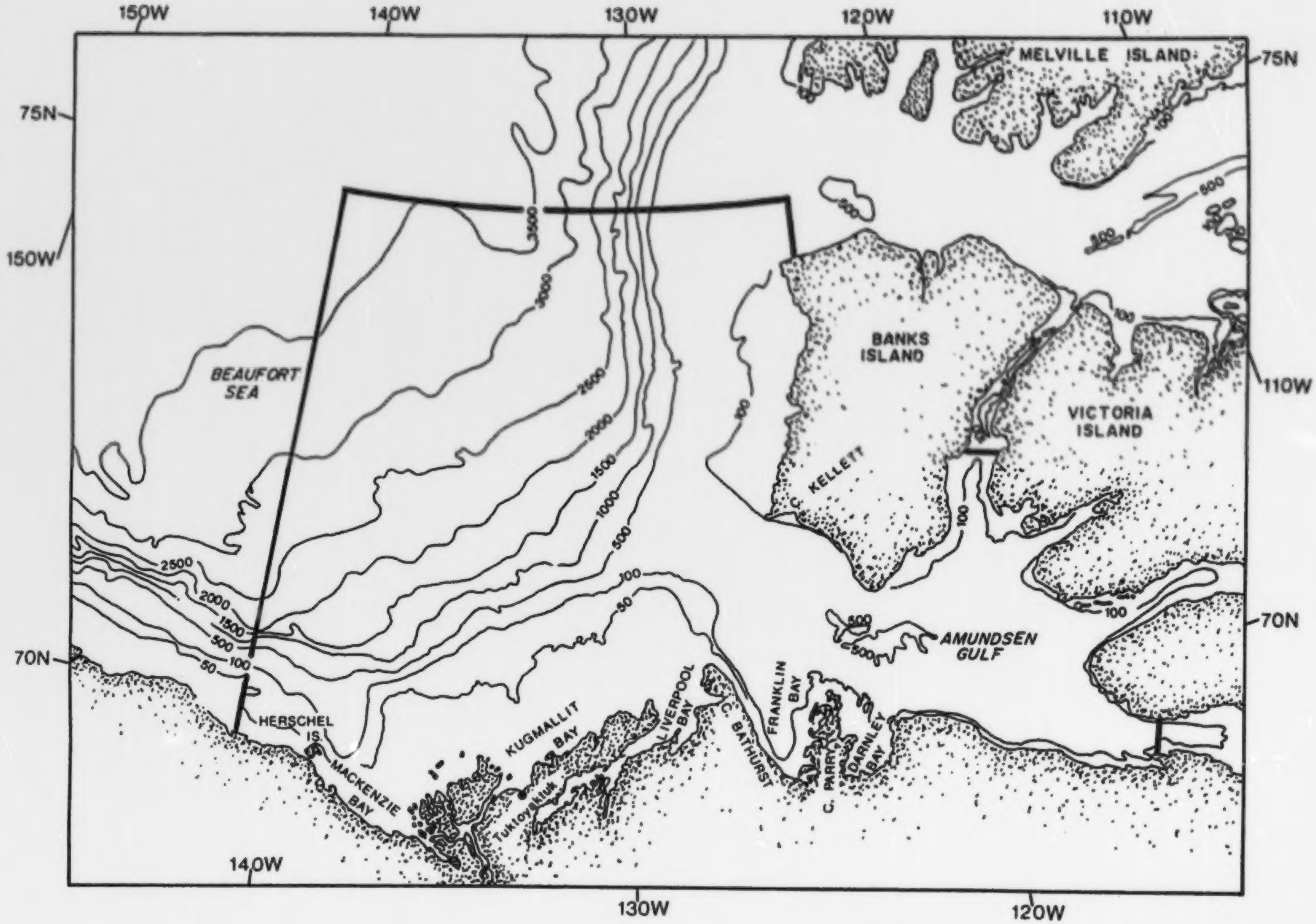

150W
140W
130W
120W
110W
75N
150W
70N
MELVILLE ISLAND
BANKS ISLAND
VICTORIA ISLAND
BEAUFORT SEA
AMUNDSEN GULF
C. KELLETT
HERSCHEL IS.
MACKENZIE BAY
KUGMALLIT BAY
Tuktoyaktuk
LIVERPOOL BAY
C. BATHURST
FRANKLIN BAY
C. PARRY
DARNLEY BAY
3500
3000
2500
2000
1500
1000
500
100
50

Fig.2. The Beaufort Sea study area is outlined with black lines. (Bathymetry is shown, in meters.)

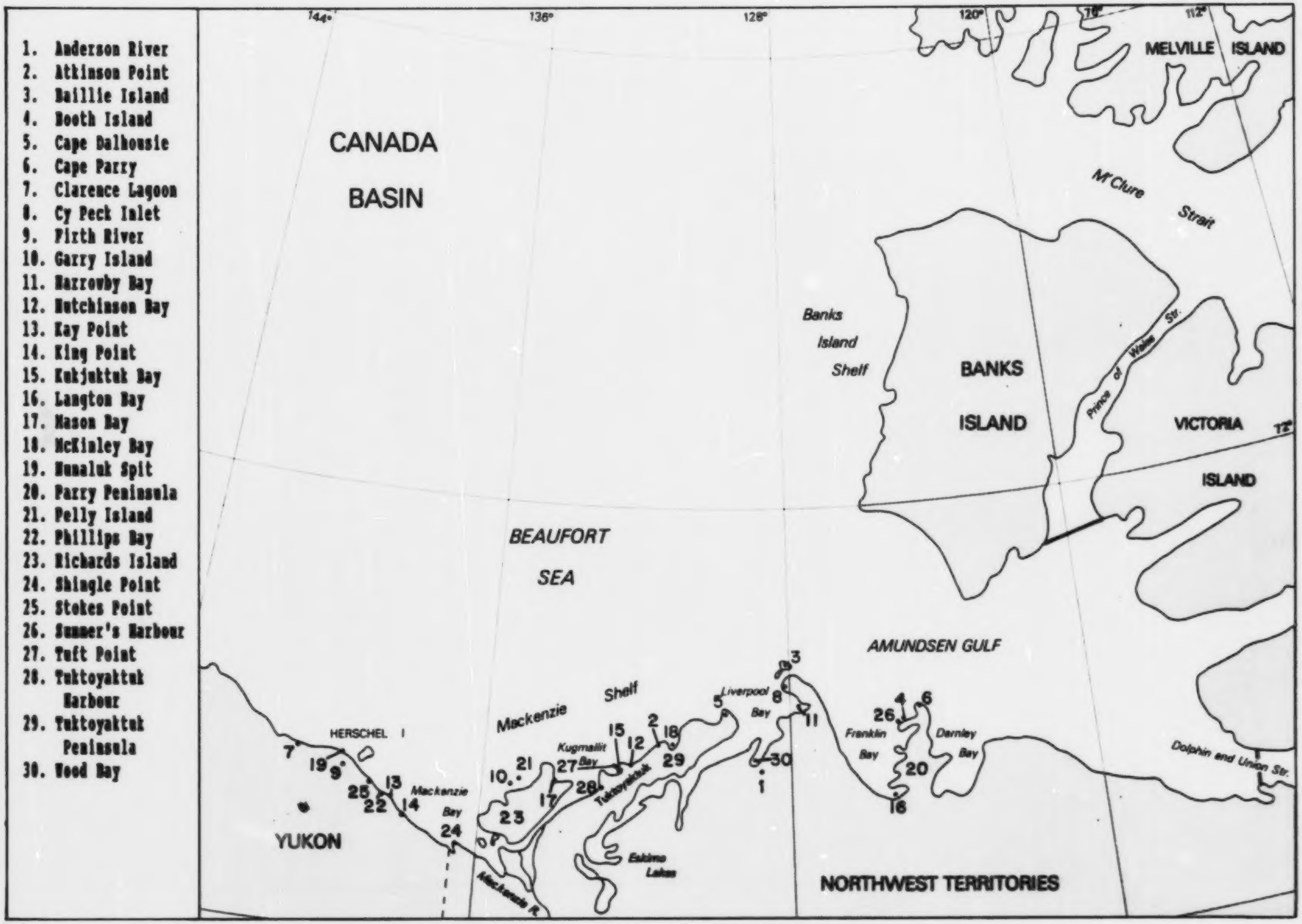

1. Anderson River
2. Atkinson Point
3. Baillie Island
4. Booth Island
5. Cape Dalhousie
6. Cape Parry
7. Clarence Lagoon
8. Cy Peck Inlet
9. Firth River
10. Garry Island
11. Harrowby Bay
12. Hutchinson Bay
13. Kay Point
14. King Point
15. Kukjuktuk Bay
16. Langton Bay
17. Mason Bay
18. McKinley Bay
19. Nunaluk Spit
20. Parry Peninsula
21. Pelly Island
22. Phillips Bay
23. Richards Island
24. Shingle Point
25. Stokes Point
26. Sumner's Harbour
27. Tuft Point
28. Tuktoyaktuk Harbour
29. Tuktoyaktuk Peninsula
30. Wood Bay
144°
136°
128°
120°
112°
CANADA BASIN
MELVILLE ISLAND
M'Clure Strait
Banks Island Shelf
BANKS ISLAND
Prince of Wales Str.
VICTORIA ISLAND
BEAUFORT SEA
AMUNDSEN GULF
Mackenzie Shelf
HERSCHEL I
Kugmallit Bay
Tuktoyaktuk
Liverpool Bay
Franklin Bay
Darnley Bay
Mackenzie Bay
Eskimo Lakes
Mackenzie R.
Dolphin and Union Str.
YUKON
NORTHWEST TERRITORIES

Fig.3. Place names in the Beaufort Sea region

Study objectives

Exploration: Nineteenth Century Explorers often lived off the land and their diaries mention catches of fish and other animals. We determined that the data were of no scientific interest and they are not included here.

Biological surveys: A few data sets were based on surveys carried out to determine what species existed in the area. They did not focus exclusively on fish but on flora and fauna of all kinds. These include such studies as those by the Canadian Arctic Expedition from 1913 to 1918.

Impact assessment studies: These began in 1972 and were connected with oil exploration or associated activities such as sea floor dredging, artificial island construction, etc. Most of the data sets collected by private consultants fall into this category.

Baseline/distribution studies: A long series of fish biology and ecology studies was begun in 1955 by the Arctic Biological Unit of the Fisheries Research Board. Using different gear types their researchers fished for over two decades at many locations in the Beaufort Sea. Similar work continues to be carried out by the Department of Fisheries and Oceans, Central and Arctic Region.

Life history studies: These studies have been mainly concerned with the anadromous coregonids, the most economically important species in the region. This work has been carried out primarily by the Freshwater Institute of the Department of Fisheries and Oceans.

Monitoring: Monitoring studies normally collect organisms to detect physiological or other changes expected from a potential impact. The other effects could range from changes in: numbers of organisms, species composition, or reproductive success. Some of the industry studies were of this type.

Economic studies: These include both surveys to determine the economic importance of fish to residents of the region as collected by the Department of Indian Affairs and studies to determine the economic viability of commercial fishing of certain species. One of these was conducted by the Department of Fisheries and Oceans to determine the feasibility of a herring roe fishery in Liverpool Bay (Gillman and Kristofferson 1984).

Species studied: Because most fish studies have focussed on baseline abundance and distribution, the resultant data do not pertain to any particular species. Life history studies have dealt with the anadromous coregonids, the family of fish most important to the local people. As mentioned above there are a few data sets from a specific study on the Pacific herring.

In recent years some emphasis has been placed on the Arctic cod Boreogadus saida. Believed to be the most important fish in the marine food web, the cod is likely the most important link in transferring secondary production to the white whale.

Table 1 lists the species of fish captured in the Beaufort Sea and the codes used for each in the Data Tables. Included are several freshwater species sometimes found in brackish waters and wolf-fish, Anarhichas sp. based on a carcass from western Victoria Island (Smith, 1977. Care should be taken with taxonomically difficult groups such as the eelpout family Zooarcidae and the snailfish genus Liparis because many identifications (as given in the tables) are tentative or possibly in error.

Three species of the genus Liparis are known from the Beaufort Sea. L. herschelinus currently is considered to be con-specific with L. tunicatus (Able and McAllister 1980). McAllister et al. (1981) described some of the eelpouts from the region and provided a key for all species known from arctic Canada. More general taxonomic keys applicable to the region are provided by McPhail and Lindsey (1970) and Scott and Crossman (1973) for anadromous species and by Hart (1973), Leim and Scott (1966) and McAllister (1960, MS) for marine species. Andriyashev (1954) is another valuable source of information.

Geographical distribution of sampling

Marine sampling has been relatively evenly distributed, primarily in coastal waters, between Richards Island in the Mackenzie delta and Cape Parry to the east. Fewer samples have been collected west from Richards Island to the Yukon Alaska border. Amundsen Gulf, the Banks Island coastline and the western shore of Richards island are represented by only a few isolated surveys. The majority of samples were collected within the 10 metre isobath. This is primarily a function of the small boats used for sampling and because deep water is far from shore in most areas. Some data sets represent areas between the 10 and 100 metre isobaths, primarily to the west of the Mackenzie Delta where deep water is closer to shore. In Herschel canyon and Amundsen Gulf, a few samples were collected from water deeper than 100 metres.

Seasonal distribution of studies

Most samples were taken in the open water season from July to October with the majority being collected in July and August. Few samples were collected in December, January and February. The cold and dark make sampling in this period extremely difficult. Sampling conditions during ice breakup in June and freezeup from late September to early October are also very difficult and there were few collections at these times.

METHODS

A search was made for fish data collected in the Beaufort Sea by government agencies, museums, universities, industry and consulting firms. Where possible, copies of the raw data were obtained. In most cases only reports based on the original data were available. In one instance neither data nor report could be obtained.

For the purposes of the catalogue a data set is defined as all data collected by the same methods by a single agency, usually in a single year. For example, in 1977 the Arctic Biological Station collected data from approximately twelve stations in the Beaufort Sea by the same methods as part

Table 1. Fish species occurring in the Beaufort Sea.

Scientific Name	Common Name	Code
Petromyzontidae - lampreys		
Lampetra japonica (Martens)	Arctic lamprey	LAMP
Rajidae - skates		
Raja sp.		
Clupeidae - herrings		
Clupea harengus pallasi Valenciennes	Pacific herring	PCHR
Salmonidae - whitefishes/trouts		
Coregonus autumnalis (Pallas)	Arctic cisco	ARCS
C. clupeaformis (Mitchill)	lake whitefish	LKWT
C. nasus (Pallas)	broad whitefish	BDWT
C. sardinella Valenciennes	least cisco	LSCS
Prosopium cylindraceum (Pallas)	round whitefish	RDWT
Stenodus leucichthys (Güldenstadt)	inconnu	INCO
Oncorhynchus gorbuscha (Walbaum)	pink salmon	PKSM
O. keta (Walbaum)	chum salmon	
O. nerka (Walbaum)	sockeye salmon	
O. tshawytscha (Walbaum)	chinook salmon	
Salvelinus alpinus (Linnaeus)	Arctic charr	CHAR
S. namaycush (Walbaum)	lake trout	LKTR
Thymallus arcticus (Pallas)	Arctic grayling	ARGR
Osmeridae - smelts		
Hypomesus olidus (Pallas)	pond smelt	PDSM
Mallotus villosus (Müller)	capelin	CPLN
Osmerus mordax (Mitchell)	rainbow smelt	RNSM
Esocidae - pikes		
Esox lucius Linnaeus	northern pike	NRPK
Catostomidae - suckers		
Catostomus catostomus (Forster)	longnose sucker	LNSK

Table 1. Cont'd

Scientific Name	Common Name	Code
Percopsidae - trout-perches		
Percopsis omiscomaycus (Walbaum)	trout-perch	
Gadidae - cods		
Arctogadus borisovi Drjagin	toothed cod	TDCD
A. glacialis (Peters)	polar cod	POCD
Boreogadus saida (Lepechin)	Arctic cod	ARCD
Eleginus gracilis (Tilesius)	saffron cod	SFCD
Gadus ogac Richardson	ogac	OGAC
Lota lota (Linnaeus)	burbot	BRBT
Zoarcidae - eelpouts		
Gymnelus hemifasciatus Andriyashev	bigeye unernak	
G. viridis (Fabricius)	fish doctor	FHDR
Lycodes jugoricus Knipowitsch	shulupaoluk	ELPT
L. mucosus Richardson	saddled eelpout	SDEP
L. pallidus Collett	pale eelpout	PAEP
L. polaris (Sabine)	polar eelpout	PREP
L. reticulatus Reinhardt	Arctic eelpout	AREP
L. rossi Malmgren	threespot eelpout	TSEP
L. saggitarius McAllister	archer eelpout	AHEP
L. seminudus Reinhardt	longear eelpout	LEEP
Anarhichadidae - wolffishes		
Anarhichas sp.	wolffish	
Stichaeidae - pricklebacks		
Acantholumpenus mackayi (Gilbert)	blackline prickleback	BLPB
Anisarchus medius (Reinhardt)	stout eelblenny	STEB
Eumesogrammus praecisus (Krøyer)	fourline snakeblenny	FLSB
Leptoclinus maculatus (Fries)	daubed shanny	DBSH
Lumpenus fabricii (Valenciennes)	slender eelblenny	SLEB
Stichaeus punctatus (Fabricius)	Arctic shanny	ARSH

Table 1. Cont'd

Scientific Name	Common Name	Code
Ammodytidae - sand lances		
Ammodytes dubius Reinhardt	northern sand lance	NRSL
A. hexapterus Pallas	stout sand lance	STSL
Cottidae - sculpins		
Artediellus scaber Knipowitsch	rough hookear	RHKR
A. uncinatus (Reinhardt)	snowflake hookear	SFKR
Cottus cognatus Richardson	slimy sculpin	
Cottus ricei (Nelson)	spoonhead sculpin	
Gymnocanthus tricuspis (Reinhardt)	Arctic staghorn sculpin	ASSC
Icelus bicornis (Reinhardt)	twohorn sculpin	THSC
I. spatula Gilbert and Burke	spatulate sculpin	STSC
Myoxocephalus quadricornis (Linnaeus)	fourhorn sculpin	FHSC
M. scorpioides (Fabricius)	Arctic sculpin	ARSC
M. scorpius (Linnaeus)	shorthorn sculpin	SHSC
Triglops nybelini Jensen	bigeye sculpin	BESC
T. pingeli Reinhardt	ribbed sculpin	RBSC
Agonidae - poachers		
Aspidophoroides olriki Lütken	Arctic alligatorfish	ARAF
Leptagonus decagonus (Bloch and Schneider)	Atlantic poacher	ATPH
Cyclopteridae - lumpfishes and snailfishes		
Eumicrotremus derjugini Popov	leatherfin lumpsucker	LFLS
E. spinosus (Fabricius)	Atlantic spiny lumpsucker	ASLS
Careproctus sp.	sea tadpole	STPL
Liparis fabricii Krøyer	gelatinous snailfish	GLSF
L. gibbus Bean	dusky snailfish	DSSF
L. herschelinus Scofield	bartail snailfish	BTSF
L. tunicatus Reinhardt	kelp snailfish	KPSF
Gasterosteidae - sticklebacks		
Gasterosteus aculeatus Linnaeus	threespine stickleback	TSSB
Pungitius pungitius (Linnaeus)	ninespine stickleback	NSSB
Pleuronectidae - righteye flounders		
Liopsetta glacialis (Pallas)	Arctic flounder	ARFL
Platichthys stellatus (Pallas)	starry flounder	STFL

of an ongoing survey. Information from all stations were considered to belong to one data set. If the methods had been different at one or more stations they would have been placed in different data sets.

In some cases if the same methods were used in subsequent years, the data from the later years are included under the number given in the original year.

SUMMARY OF MEASUREMENTS MADE

A measurement is the basic unit of information about fish described in this catalogue. A measurement can range from the number of fish present, observation of behaviour, to any of a number of physical measurements on the body of a single fish. A measurement is defined as a primary determination of some fish characteristic such as length, weight or egg number; secondary or derived measures such as abundance, distribution or recruitment rate are not included.

A total of 55 different measurements were recorded for Beaufort Sea Fish. These have been grouped into 8 categories in this catalogue, as listed in Table 2. The list includes only actual measurements in the data sets, and not all the measurements theoretically possible.

Table 2. Fish Measurements.

Number

Number in gillnet
Number in seine haul
Number in trawl
Number in trap
Number killed by poison
Number harpooned
Number caught on rod and line
Number caught on longline
Number caught by hand
Number jigged
Number counted from sonar scans
Number passed through dredge
Number found dead
Number in plankton net
Number killed by explosives
Number in bottom dredge
Number in bottom grab
Number caught on hand line
Number in commercial fishery

Identification

Species name

Morphometrics

Length, total
Length, standard
Length, fork
Body dimensions (length of body parts etc.)
Weight
Meristics, for example;
    caecae number
    gill raker number
    others

Age

Number of annuli, scale
Number of annuli, otolith
Number of annuli, fin ray
Number of annuli, operculum

Reproduction

Testes, presence/absence
Testes, relative developmental stage
Testes, length or girth
Testes, volume
Ovaries, presence/absence
Ovaries, relative developmental stage
Ovaries, length or girth
Ovaries, volume
Egg diameter
Egg number
External sexual characteristics

Food

Gut contents, % full
Gut contents, weight
Gut contents, volume
Gut contents, numbers of food items
Gut contents, identification

Parasites

Presence/absence, by organ
Numbers, by organ
Identification

Movements

Direction of movement
Number of fish tagged
Number of fish recaptured

GENERAL CATALOGUE LAYOUT

Three comprehensive summary tables thoroughly describe the data sets. Data Table 1 includes: an identification number which is shared with physical, chemical and other biological data sets collected by the same agency at the same time, the company or agency which collected the data, the collection period, ship used (if applicable) the geographic area where the study was conducted, the taxa collected, the biological quantities sampled or measured, concurrent biological, chemical and physical measurements taken (Table 3) and any applicable remarks.

Table 3. Concurrent Measurements.

Biological categories

- Microbes
- Phytoplankton
- Zooplankton
- Zoobenthos
- Phytobenthos
- Epontics (algae and invertebrates)
- Birds
- Mammals
    - cetaceans
    - pinnipeds
    - ice associated (bears and foxes)

Chemical categories

a) Environmental medium	b) Broad Category of Measurement
atmosphere	hydrocarbons
ice	metals
water	nutrients
suspended particulates	chlorophyll
sediment	dissolved oxygen
biota	major elements
	other

Physical categories

Atmosphere	Ice	Water Column	Substrate
wind speed	salinity	temperature	particle size
wind direction	thickness	salinity	
precipitation	other	conductivity	
atm. conditions		current speed	
other		current direction	
		depth	
		turbidity	
		transparency	
		water level	
		wave climate	

Data Table 2 lists parameters measured, the unit of measurement, numbers of samples and stations, gear type and description, methods of sample storage and analysis, measurement precision and accuracy and the rating of the data.

Data Table 3 lists further information about the data sets such as station Latitudes and Longitudes and sampling times.

Maps are provided to show data coverage by year and by bi-monthly period. All sampling locations are shown on the maps.

A number of Indices are provided to allow the user quick access to the data sets. There are species, geographic area, measurement and method of collection indices.

A comprehensive list of all known publications based on the data sets is also provided.

USER'S GUIDE TO THE CATALOGUE

STEP 1

Using one of the four indices (Species, Measurement, Geographic or Collection method), the user can key into the studies he or she is interested in. For example if one is interested in studies on arctic cod in Kugmallit Bay, consult the Location index and copy down the identification numbers of the studies listed there for Kugmallit Bay. Next, consult the Species index and copy down the identification numbers for studies on arctic cod. Numbers common to both indices are the cod studies in Kugmallit Bay.

STEP 2

The identification numbers obtained now focus the search through the data tables, maps and reference lists.

Table 1 can be consulted for general information on collecting and funding agencies, types of measurements made on which species, concurrent measurements made and the general sampling areas and dates.

STEP 3

Table 2 is to be consulted for each data set for more detailed information on the parameters measured for each species, the methods employed for these measurements, numbers of samples taken, precision and accuracy of the measurements and an appraisal of data quality.

STEP 4

By referring to Table 3 the user can find information on exact sampling locations, sampling times, sampling depths, and sampling intervals. Graphic representations of spatial and temporal sampling coverage is provided by the maps.

STEP 5

The Reference index can be consulted to find the citations of reports on given data sets. This index also provides information on the method of storage of the original data and the location and availability of samples and data.

APPRAISAL OF STUDY METHODS

DEFINITION OF THE RATING SYSTEM

All data have been rated on a 5-level rating scale, defined as follows:

Rating Scores	Data Quality
0	Data are found (or judged) to be wrong.
1	Data are suspect because of ill defined doubts. Patterns or trends within the data are probably not real.
2	Insufficient information is provided to assess the quality of data; the data were not or could not be investigated.
3	Data are internally consistent; patterns or trends within the data are probably real but comparison with other data sets may be difficult or impossible.
4	Data are internally consistent and are sufficiently standardized or tied to a reference that comparison with other data of this rating score should be possible. Data may not be accurate in an absolute sense.

Because the "2 rating is not better than a "1" rating, the scheme is not truly hierarchical. Ignoring the "2" rating, however, one finds that the scheme is hierarchical (0, 1, 3, 4). The scheme is presented this way to provide continuity with other catalogues in the series.

The rating scheme is intended to be a guide to the appraisal of study methodologies and not an absolute statement of data quality. An ideal rating system would use only objective rating criteria, but due to the nature of some biological measurements and observations, this is not always possible. Some measurements and observations involve a high level of subjective judgment or interpretation from the investigator.

BACKGROUND AND RATIONALE

In order to make comparisons of biological phenomena between areas, seasons, years or before and after environmental perturbations, it is necessary to ensure that the data collected in different areas or at different times are comparable. One objective way to compare data is to ensure that accuracy of the measurements is the same.

Accuracy is a measure of how close to the true value a measurement is. It is a measure of systematic variation in the results. For example, fish weight measurements may always be say 10 g too high if the scale is zeroed incorrectly.

Precision is the measure of the random variation in results; it can be expressed for example as a standard deviation. The more precise the measurements the closer together are repeated measurements of the same parameter on the same animal or structure.

In the physical and chemical sciences multiple measurements are often easy to make to determine precision. To determine accuracy, standards are available, although relating chemical standards of one matrix to samples of a different matrix is often difficult. Physical and chemical laboratories develop sampling and analytical protocols and quality control procedures to ensure the best results possible.

Some biological measurements are simple physical measurements on organisms (for example weight, length). Simple protocols and quality control procedures can usually ensure the precision and accuracy of such measurements.

Other biological measurements are observations or combinations of observations and instrument measurements. For example, to obtain testes weights one has to first identify the testes (observation) and then weigh them (instrument measurement). The recognition of the testes is subjective and because no researcher will carry a reference testis with him, there has to be a small amount of doubt about the measurement. Consequently, the rating of such data is also partially subjective.

The operational unit of this catalogue and others in this series is the "measurement". This is defined as a single determination of some variable. If multiple determinations have been made, it is the mean value plus or minus the standard deviation. The measurement reflects what was actually recorded such as the number of fish taken from a gillnet. It is not a derived number such as abundance. A list of measurements is provided in Table 2.

Each measurement type in each data set has been appraised separately. First, rating factors were established for each measurement type, the criteria being based on the judged ability of the researcher to produce repeatable, accurate results; second, the investigator's methods were judged by these factors and a rating score from 0 to 4 assigned to the measurement. The rating score is the lowest of the scores derived from the individual rating factors.

It is fundamental to the rating scheme that the measurement methods be repeatable not only by the original investigator but also by anyone else wishing to repeat them. For this to be possible, the original work should have been performed in a consistent and defined manner and the investigator should have provided a complete detailed description of all sampling and analytical methods. All terms and units should have been defined clearly and concisely.

Completeness implies that enough data were collected to answer the question or test the hypothesis for which they were collected. For example a collection of ten 4-rated broad whitefish ages would not be sufficient to describe the age structure of an area's broad whitefish population.

Completeness and final use are independent of the quality of the data and have not been taken into account in the rating of the data. The rating achieved by particular data may, on the other hand, determine the purposes for which they can be used.

No matter how precise the measurement, if the sample is not representative of what exists in nature, the results can be useless for some applications. For example one may trawl an area, describe the gear and sampling conditions fully, count all individual fish in the trawl accurately and identify each one to species but if some unknown proportion of some species avoid the trawl, the sample will not represent the population actually in the area. The results will be of limited use in describing the population. Samples such as this could receive a 3 or 4 rating, if the documentation were sufficient for another investigator to repeat the measurement under identical conditions in order to produce comparable results. Ratings were applied independent of the representativeness.

The measurement "identification" has not been rated because it is a subjective measurement. Although there are keys against which a specimen can be compared, the identification depends on the interpretation by the investigator of how well the organism fits a particular description. Correct identification of organisms is crucial to all subsequent operations. This leads to the dilemma that possible 3 and 4 rated data may not be usable because the identification of the organisms is incorrect.

RATING FACTORS FOR FISH MEASUREMENTS

Number

Method of counting: Some methods of counting or enumerating fish are intrinsically more accurate than others. For example, after experimental gillnetting or trapping, fish usually are counted one by one and errors are small. On the other hand, if they are counted as "pailsfull" after being taken from a large seine haul, the errors may be considerably larger. Numbers sometimes are estimated visually in 10's, 100's etc.; errors may be larger or smaller depending on the method of counting employed.

Subsampling often is used for large catches as in the "pailsfull" example, cited above. An arbitrary weight or volume of the catch is counted and extrapolated to the total weight or volume of fish. Estimates of precision are required to increase the certainty of the total number caught.

Intrinsic errors in catch method: In some data sets, fish numbers are estimated by counting "blips" on a sonar screen. There can be interpretation errors because counts for a given species will be in error if another species is mistakenly identified as that species.

Usually an investigator is interested in more than the number of fish in a sample. "Numbers" are combined with other information to derive values such as biomass, production and abundance. Other information is required if numbers are to be useful in the calculation of these values. For the purposes of this catalogue, the presence or absence of this information does not change the rating of the measurement of "number" (or for that matter any of the measurements). However, we recognize that they do determine the usefulness of a measurement in deriving other values.

The other information required is as follows:

- complete description of sampling gear, including all sizes, materials used in construction, brand names model numbers where applicable, etc.
- a description of the sampler habitat including bottom type, total water depth, presence or absence of ice, salinity (especially in estuarine areas), etc.
- a complete description of the methods of gear deployment or use including depths of net sets, orientation of nets to shore, towing speeds, settings of any electronic instruments used, bait used on setlines, etc.
- dates of sampling
- the time of day when sampling occurred and the time zone
- weather information
- the length of sampling time for passive gear such as gill nets traps etc., volume of water trawled, length of beach seined etc. for active sampling gear
- the area of habitat represented by the sample taken

In order to rate "number" one needs to know: 1) how it was determined, and 2) the level of precision. In the case where numbers are arrived at by counting one at a time, it is unlikely that the precision will ever be known as fish are not normally counted more than once, nor is there any need to, as errors are bound to be very small. A check on numbers often occurs when all fish in the catch are processed beyond counting. The number of fish weighed or measured can be checked at a later date. Such data would receive a 4 rating assuming that all other required information was provided.

If numbers were arrived at by methods other than by direct counting the investigator should have provided an estimate of the precision of the method employed. Failure to do so would result in a 1 rating for the data. If an estimate of precision is provided along with a full description of the counting method, a 4 rating is possible.

The following paragraphs indicate factors which affect the representativeness and comparability of selected catch methods.

Number in gillnet: A large number of factors affect the comparability of gillnet catch data. Gillnets are very size selective and species selective (depending on the morphology of the fish). Efficiency is dependent on such factors as mesh size, twine material, thickness and colour; hanging ratio (netting length to float line length), time of day, method of net setting and fish behaviour which varies with environmental factors such as temperature, wind velocity and turbidity.

Number in seine haul: The number of fish caught by a beach seine depends on the mesh size, the smoothness of the bottom, ensuring that the leadline is kept on the bottom, time of day, clarity of the water and the distance seined. The accuracy of the number determination depends on the method of counting of subsampling used.

Number in trawl: Trawling is often a reliable method for obtaining quantitative estimates of fish populations. Obtaining representative samples is dependent on a number of factors such as shape and size of the mouth of the trawl, mesh size, trawling speed and other details of the construction of the trawl.

Number in trap: Trap efficiency varies with species and often with life stage. Some species will follow leads, others will not; some fish species are more likely to escape than others. The size of mouth, mesh size, and net size can all affect catches. Other factors which can affect catch are water turbidity and temperature, the location of the trap and its orientation to the shoreline.

Number killed by poison: In some areas such as small bays which can be blocked off with nets, poisoning can be used as a quantitative catch method. In the Beaufort Sea it has been used only as a qualitative catch method. Because of this, "Number killed by poison" is not rated.

Number harpooned: This method is strictly qualitative and is not rated.

Number caught on rod and line: This method is strictly qualitative and is not rated.

Number caught on longline: This method has been used on only qualitatively in the Beaufort Sea and is not rated.

Number caught by hand: This method is strictly qualitative and is not rated.

Number counted using hydroacoustics: This method has the potential for determining absolute population estimates. There are many problems associated with it, however. Some of these are: poor species discrimination, poor sampling capability near the surface and bottom, lack of biological samples and potential biases associated with target strength and calibration.

Number passed through dredge: This is not a sampling method for fish *per se* but is used to determine destruction of fish by dredges. There are difficult physical problems to overcome and representativeness is a problem. The best way to overcome these would be to perform experiments with the introduction of fish into the dredge.

Number found dead: This method is strictly qualitative and is not rated.

Number in stomach contents: This is another qualitative method. There are problems even at this level due to digestion of the fish. This method is not rated.

Number in plankton net: For early life stages this method can be as quantitative as trawling and would be rated the same way.

Number in bottom grab: Fish catches in grabs are incidental to benthos sampling. The method is not quantitative and is, therefore, not rated.

Identification (not rated)

Species name:

EXPERIENCE OF THE IDENTIFIER: The experience of the person identifying the fish is probably the most important factor in determining whether or not a fish has been identified correctly. Unfortunately, the experience of the identifier is a factor which is impossible to rate. Often it is not known who identified the fish.

In most studies, however, it is necessary only to send specimens of the species in question to a recognized expert for verification of the identification. The names of verifying experts should be stated.

KEYS EMPLOYED: One or more keys will likely be recognized as being the definitive works for the species in question. If these have not been used, doubt will be cast on the identification of these species. Authors should state which keys were employed to identify each species.

PRESENCE OF SIMILAR SPECIES: A unique species, such as the inconnu in the Beaufort Sea region, is relatively easy for most people to identify. On the other hand two similar species, such as arctic and least cisco, which occur together in some areas of the Beaufort Sea, require experience to separate with certainty. It is extremely difficult to separate very small individuals of these species.

ESTABLISHMENT OF A REFERENCE COLLECTION: If a reference collection has been established, it will be possible for other investigators to confirm or reassess species identifications. Also, if revisions of species are carried out, it will be possible to apply revisions to the collection. Such collections should be deposited at appropriate facilities. In Canada the National Museum of Natural Sciences and the Royal Ontario Museum are two such facilities. This action ensures the continued availability of the specimens.

Because of the subjectivity of trying to rate the quality of identification of species, this category of measurements is not rated.

Morphometrics

Length, total:

Length, standard:

Length, fork:

Body dimensions (length of bones, body parts etc.):

USE OF APPROPRIATE MEASUREMENT UNITS: The measurement unit has to be chosen to represent accurately the size of the species or part being measured and to be able to separate differences in the size of individuals or their parts. Whole centimetres may be adequate for measuring the length of a metre long fish but would be inappropriate for measuring a ten centimetre long fish.

Inappropriate units are not normally a problem but the units used should be stated to avoid uncertainty.

SPECIFICATION OF STORAGE CONDITIONS: Some storage conditions can change the sizes, shapes and weights of fish or their body parts. These include formaldehyde, drying, etc. If measurements have been made on stored fish or their parts, the investigator should state this fact and should have carried out trials to determine the effects of the storage method on relevant measurements. Because length and weight change over time in formaldehyde before they stabilize, the time in storage should be stated.

SPECIFICATION OF WHICH LENGTH IS MEASURED: Three different lengths are used for fish. These are standard, fork and total. There are also two total lengths, natural and maximum. Standard length is always shorter than the other two because it is measured from the tip of the snout to the base of the caudal fin rays. In the early part of the 20th century in Canada the term total length had a different meaning from the current one.

The investigator should specify the type of length measured to avoid confusion and errors.

TYPE OF MEASURING INSTRUMENT USED: Investigators commonly use a fish board graduated in millimetres. It has a vertical end piece against which the snout of the fish may be placed to ensure that length is measured precisely. The investigator should state what sort of instrument was used for length measurement and what the smallest readable unit of measure was.

For body parts, a vernier caliper or similar instrument is required for accurate measurement(s). Their use should be stated, as should the degree of precision of the instrument.

In order to obtain a 4 rating for length, the data should include the type of measuring instrument used and its accuracy, an estimate of the precision of the measurement, a description of the procedure used to measure the length and, for fish length, the type of length measured (standard, fork, total).

Weight:

TYPE OF UNITS USED: As with length, the size of the unit has to be appropriate for the weight of the fish.

CALIBRATION OF MEASURING INSTRUMENTS: Scales often go out of calibration and must be recalibrated at regular intervals. It should be stated that this procedure was carried out and at what intervals it was done.

SPECIFICATION OF STORAGE CONDITIONS: As with length, storage conditions of specimens prior to weighing may affect weight. If weights are taken after storage or preservation, the treatments should be described in detail. For best results, the effects of storage and preservation techniques should be determined and reported.

To receive a rating of 4 weight data must include the type of scale used, estimates of the precision and accuracy of the measurements, information about calibration of the scales, information about storage of samples, and the effects of storage on weight.

Meristics, for example:

# of caecae
# of gill rakers
etc.

The precision of such measurements may be determined using repetitive counts. Systematic counting errors resulting from misinterpretation of what is being counted can still occur. Therefore, a description should be given of the interpretation of structures being counted. If all of this information is provided, the data will be given a 4 rating.

Age

Number of annuli, scale:
Number of annuli, otolith:
Number of annuli, fin ray:
Number of annuli, operculum:

USE OF THE APPROPRIATE BODY PART: As can be seen from the above list, a number of different body parts can be employed for aging fish. Not all parts are appropriate for all fish species or for all ages of fish within a species. For example, scales are unreliable for aging old, slow growing species. They are also unsuitable for northern salmonids. Often scales underestimate the true age of the fish by a proportionally larger amount as the true age of the fish increases. It is not possible to compensate for this error. Other species tend to lose and regenerate scales. The replacement scales do not have annuli for the years prior to replacement.

DESCRIPTION OF SAMPLING OF BODY PART: There should be a complete descripiton of how the body part was obtained. This is particularly important for scales. The first scales to develop are not on the same part of the body in all species. The scales have to be taken from the correct area to obtain accurate ages. For fin rays it is important that they be taken as close to the body as possible to obtain accurate results.

DESCRIPTION OF STORAGE METHODS: These should be described. It is possible to erode otoliths if they are stored in an acid medium, for example if fish are stored in un-buffered formalin otoliths can be decalcified, thus obscuring annuli.

PREPARATION AND VIEWING: Better results are sometimes obtained by processing the body part prior to examination for annuli. One example is grinding and burning otoliths. Others are clearing, staining, making acetate impressions of scales and sectioning of fin rays or otoliths. Such treatments provide more contrast between "light" and "dark" bands. All information on the treatment of body parts should be included in the methods.

It is also important to describe the equipment and counting methods used for determining the number of annuli. This should include magnifications, use of phase-contrast microscope, etc. Criteria should be provided for the definition of an annulus for each species aged.

TRAINING AND EXPERIENCE OF THE AGER: Because interpretation of annuli is an acquired skill, the experience of the person aging the fish is of great importance. It would be of benefit to someone reading a report if the names and experience of the agers were published. At the very least a report should state that the ayer is trained to read annuli of the species in question.

INTERCALIBRATION WITH OTHER AGERS: When more than one individual is responsible for aging fish from one study, it is necessary to calibrate the agers to ensure that they are providing comparable results. A report should state how many people aged the fish and whether or not intercalibrations were done.

REPETITIVE COUNTING: In order to obtain statistics on the ages obtained it is necessary to count annuli a number of times for each fish. This is often done by more than one person and can show when systematic errors are being made by one of the agers. Details should be given of repetative counts and the estimates of precision for the ages.

VALIDATION OF ANNULI: To ensure that ages determined from the counting of annuli are accurate, it is necessary to prove that each operationally defined annulus does in fact represent a single year's growth. A number of methods are available to do this but it requires a lot of time and effort for each species. Unfortunately, these procedures have been carried out on few species. It is normally assumed that so called light and dark rings are formed annually. If validation has not been performed, the data are not down-graded in the ratings.

Unless the ages of fish have been calibrated between different laboratories it will not be possible to ensure that data produced by the two labs are comparable. Under these circumstances the best rating that can be achieved for age data is a 3. To be rated 3 all of the information noted above will have to be provided with the age data.

Reproduction

Testes, presence/absence:
Ovaries, presence/absence:

AGE OF FISH: Young fish often have very small gonads; sex identification is very difficult. Experienced observers will have less trouble determining fish sex but a microscopic examination by trained observers is often required for immature fish.

Testes, weight:
Ovaries, weight:

These are the same as for fish weight.

Testes, relative development stage:
Ovaries, relative developmental stage:

Using such a scheme is very difficult because the descriptions are subjective. In some cases photographs have been taken of the various defined developmental stages. This not only aids the field workers in determining the developmental stage of each fish examined, but also allows other workers to use the same scheme or to compare it to their own.

Some schemes are based on measurements of the testes, ovaries or eggs. Because these are secondary measurements they cannot be rated. The measurements on which they are based are rated, however, and the scheme would be reproducible.

Rating schemes which are not reproducible are of little value. In most cases the best rating possible for relative developmental stage data is a 3. In cases where photographs have been used to define the stages, a 4 rating is possible.

Testes, size:
Testes, volume:

Size of testes may be a length or girth which would be measured as any other linear measurement. It would be rated as any other length.

The volume of testes may be measured directly, as by displacement of water in a measuring cylinder, or by roughly estimating the volume as a percentage of the size of the body cavity. The former method may be rated from information provided on the methodology. A 4 rating would require a description of the equipment and methods used as well as estimates of the precision and accuracy of the measurements.

The measurements obtained by estimating the percentage of the body cavity receive a 1 rating automatically because they are highly subjective and not comparable to data obtained by other investigators, nor can different people within the same study be relied upon to produce comparable results.

Ovaries, size:
Ovaries, volume:

Measurements taken in these categories would be rated the same as for testes size and volume, above.

Egg diameter:

See "Length"

Egg diameter may be used to determine the maturity of the fish by comparing the diameter in a given fish to the known diameter in a ripe and running female. Eggs should be measured fresh to avoid differential diameter changes. The only comparison possible between populations and years would be on eggs taken from ripe and running fish.

Egg number: The number of eggs is usually determined by counting weight or volume subsamples and comparing to the total weight or volume of eggs.

See "Number", "testes volume" or "weight" depending on the method of estimation. Estimates of precision and accuracy of the subsampling method should also be included.

External sexual characteristics: In some species and at certain times of the year, usually the breeding season, there are differences between the sexes. These can be used to differentiate between males and females without the need for killing fish.

In order to be rated 4, The data would have to be collected at the right time of year, applied to a species normally exhibiting sexual dimorphism, and the criteria used for sexing should be stated explicitly.

If fish are ripe and running it is possible to determine the sex of the fish by the type of sexual products released.

Food

Gut contents, % full:
Gut contents, weight:
Gut contents, volume:
Gut contents, numbers of individuals:
Gut contents, species identifications:

All of these topics are similar to other topics covered above: for "gut contents % full" see "testes, size"; "% fullness" is a subjective measurement and cannot be rated objectively; for "gut contents, weight" see "weight"; for "gut contents, volume" see "testes volume"; for "gut contents, number of individuals" see "number". Species identification of the gut contents cannot be rated.

REPRESENTATIVENESSS OF FOOD DATA: Catch method can affect the gut contents; rotenone, trawling, gillnetting and electroshocking all stress fish and they may regurgitate food. Some species are more likely to regurgitate their food, e.g. piscivorous fish with large distendable esophagi. If fish are retained for long periods in traps or gillnets food may may be digested before it can be examined. Large fish in traps may eat other organisms in the trap, leading to atypical gut contents. Also, diurnal feeding patterns exist for some species. All of these factors should be taken into account when comparing food habits.

Parasites

Presence/absence, by organ:
Numbers, by organ:
Species identifications:

See "Gut contents", above.

Movements

Location - latitude and longitude (not rated): There are numerous methods for determining position such as dead reckoning, radar fixes, radio positioning, satellite navigators etc. Each has its own precision and accuracy. The method employed to determine position should be stated along with an estimate of the precision and accuracy of the method.

Because it is almost impossible to find an exact location a second time, location is not rated. Suspect locations are noted in the remarks column.

Direction of movement: Instantaneous direction of movement can be determined by setting parallel sets of gear such as traps or gillnets such that fish traveling in one direction are caught in one set and those travelling in the opposite direction in the other. Single gillnets can be used by noting which side of the net the fish swam into. This measurement is actually derived from "number" in the particular gear type and direction in which the net is set.

Longer term directions of movement can be determined from radio tags or sonar tags or from the return of numbered tags. However, the actual direction is determined from two or more locations and is also a derived measure.

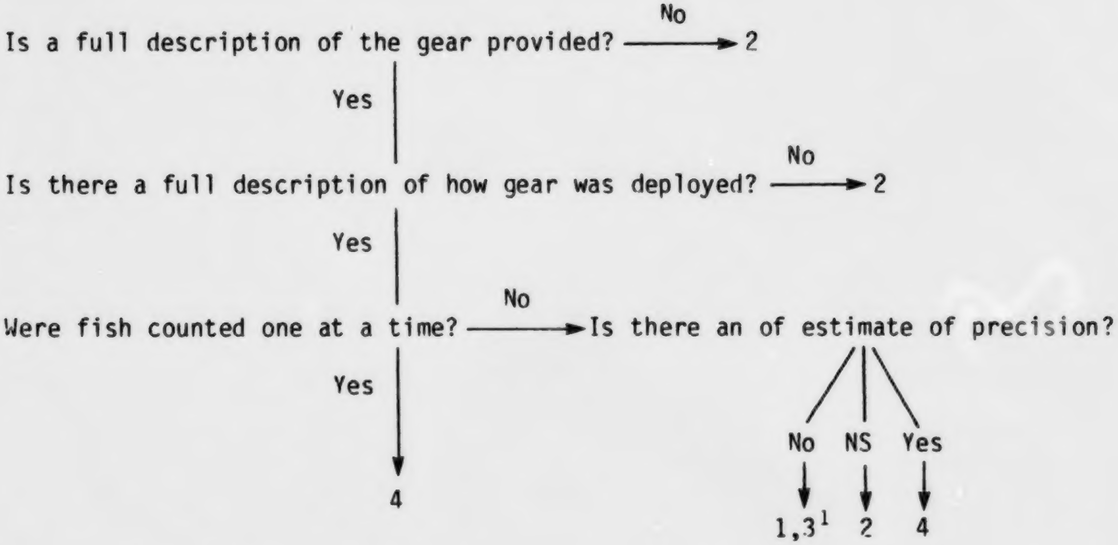
Number of fish tagged:
Number of fish recaptured:

These measurements would be treated the same as any other "number". To be of use however, further information would be required. One needs the location at which the fish was caught, the date it was caught and the date and location of recapture. To make the most use of the data one would prefer to have the length and weight at initial capture and and equivalent data at the recapture. Because the investigator often depends on fishermen to return tags, the only information usually available is the location of the recapture.

DATA RATING CHARTS

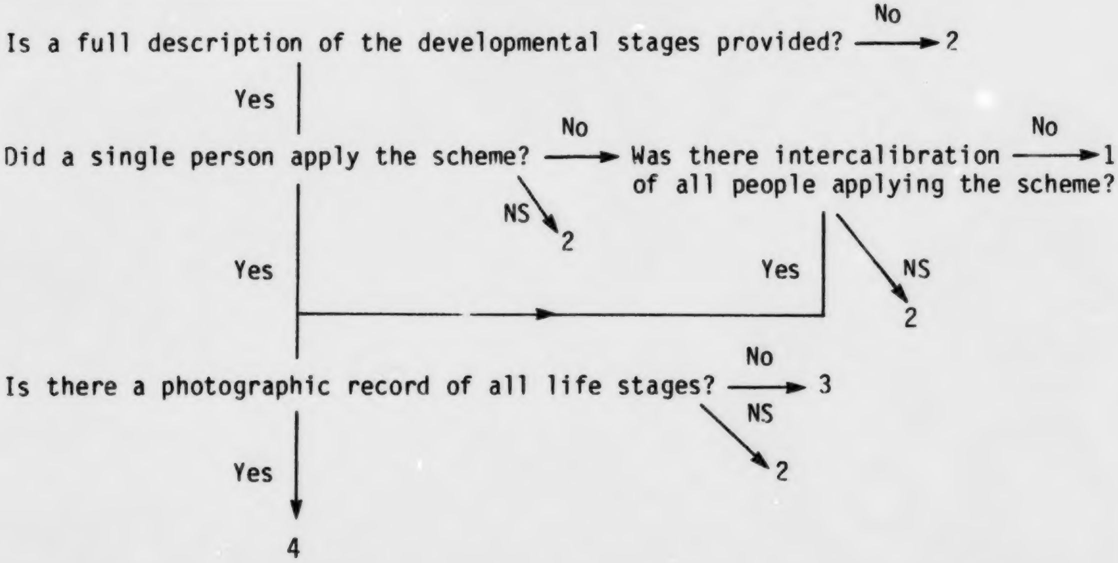
NS = Not Stated

Number

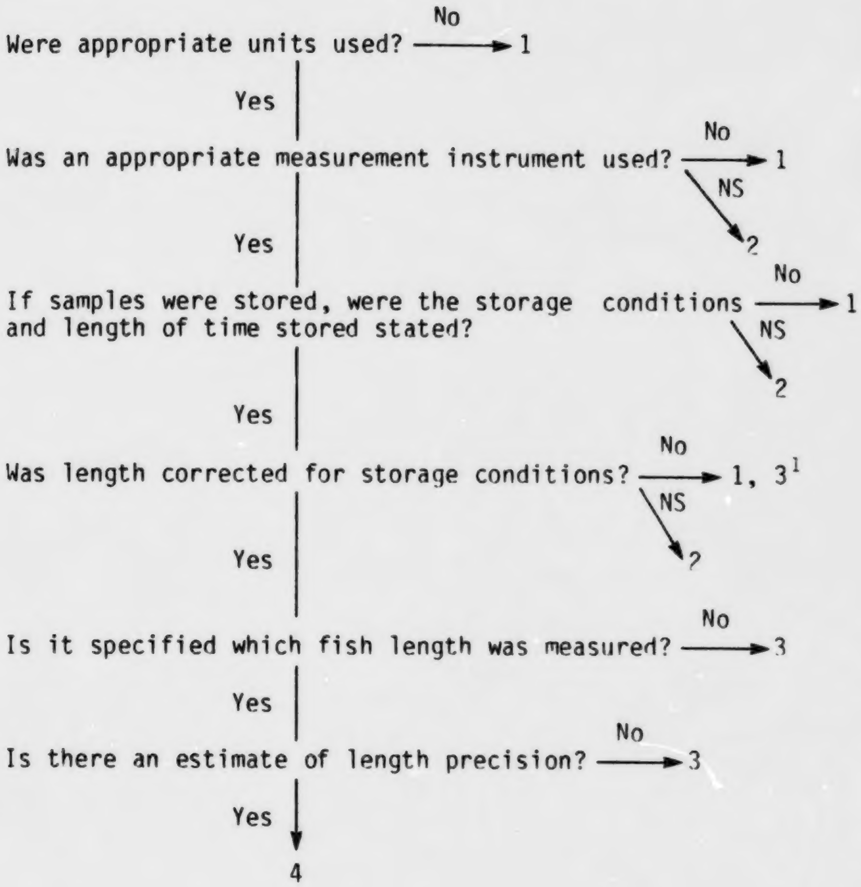

Is a full description of the gear provided?
No
2
Yes
Is there a full description of how gear was deployed?
No
2
Yes
Were fish counted one at a time?
No
Is there an of estimate of precision?
Yes
4
No
NS
Yes
1,3[1]
2
4

[1] There is a good chance that the data are incorrect in absolute terms, ie not accurate, but if the same method is used with all samples and there are no large differences in species composition or in sizes of fish caught, samples will be comparable in relative terms.

Relative Developmental Stage


Is a full description of the developmental stages provided?
No
2
Yes
Did a single person apply the scheme?
No
Was there intercalibration of all people applying the scheme?
No
1
NS
2
Yes
Yes
NS
2
Is there a photographic record of all life stages?
No
3
NS
2
Yes
4

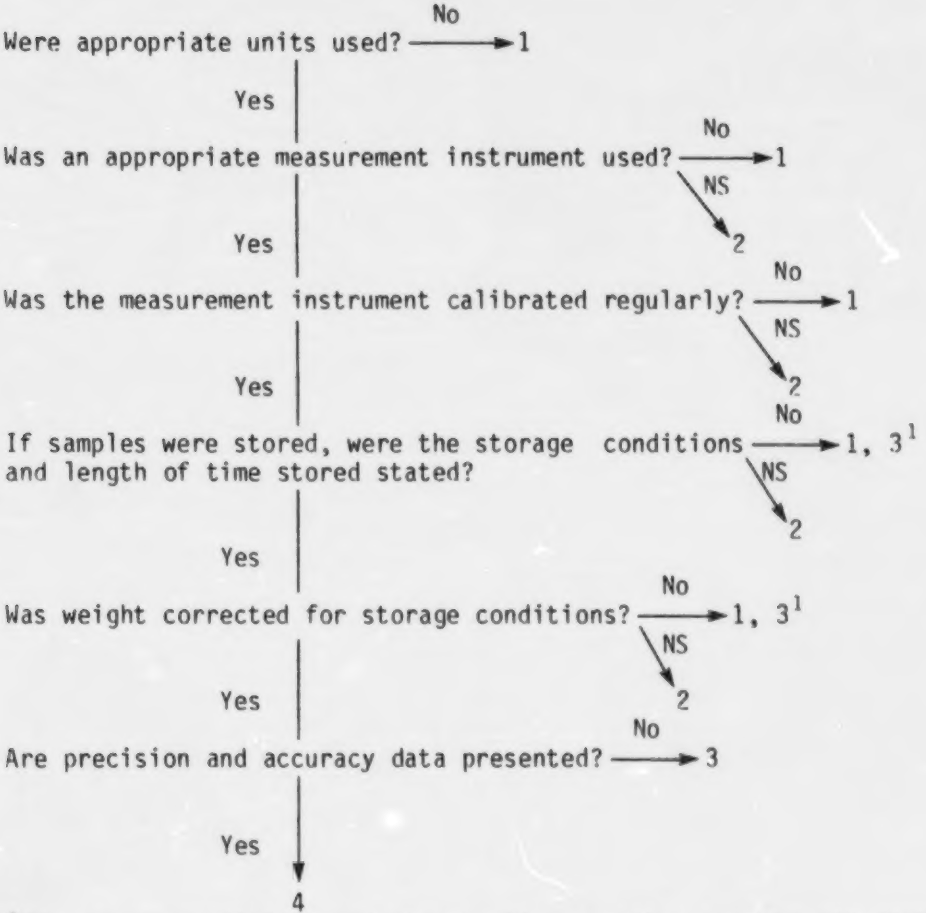
Length


Were appropriate units used?
No
1
Yes
Was an appropriate measurement instrument used?
No
1
NS
2
Yes
If samples were stored, were the storage conditions and length of time stored stated?
No
1
NS
2
Yes
Was length corrected for storage conditions?
No
1, 3[1]
NS
2
Yes
Is it specified which fish length was measured?
No
3
Yes
Is there an estimate of length precision?
No
3
Yes
4

---

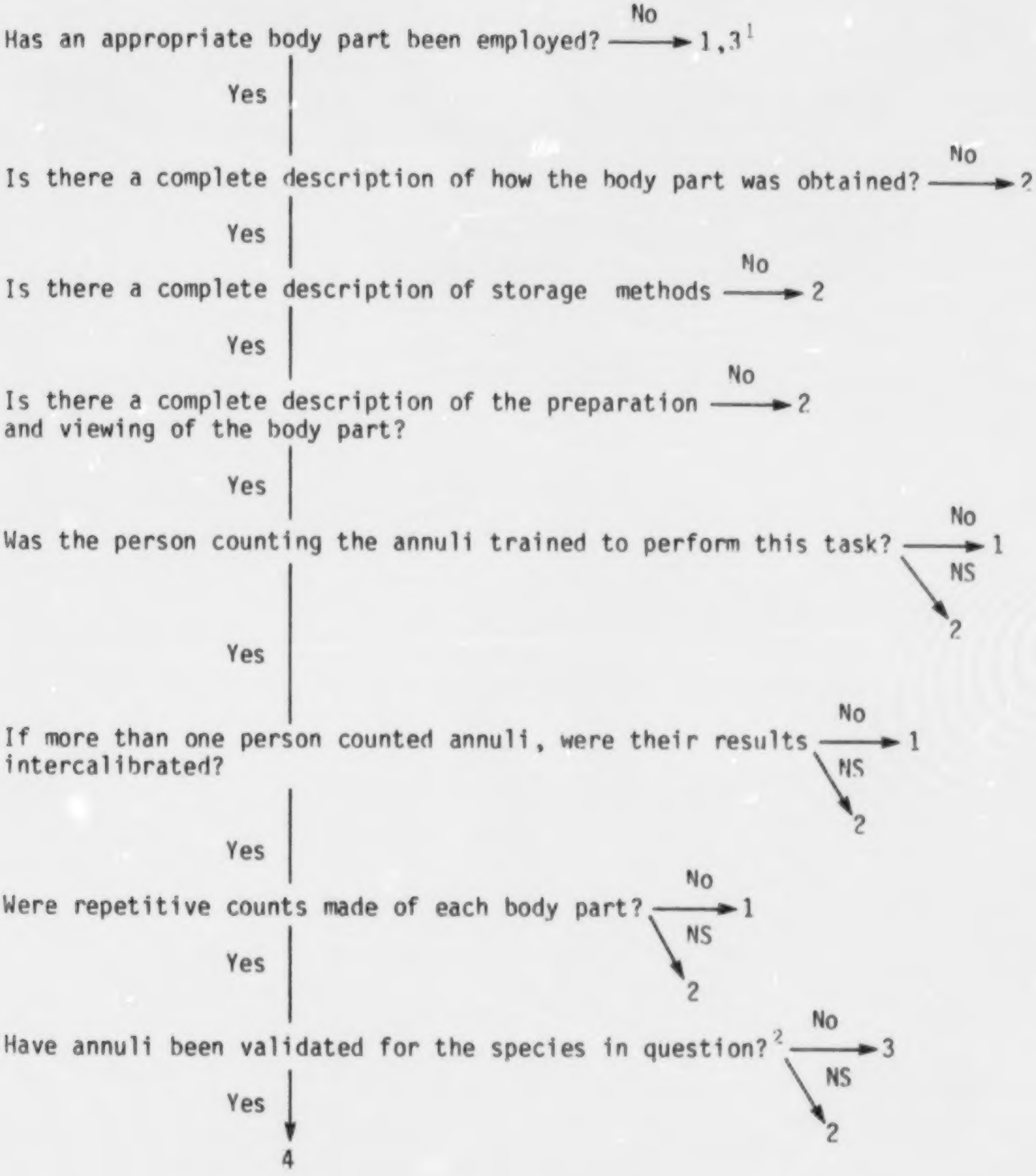
[1] If storage conditions and storage time are the same for all fish the data will be comparable within the data set.

Weight


Were appropriate units used?
No
1
Yes
Was an appropriate measurement instrument used?
No
1
NS
2
Yes
Was the measurement instrument calibrated regularly?
No
1
NS
2
Yes
If samples were stored, were the storage conditions and length of time stored stated?
No
1, 3[1]
NS
2
Yes
Was weight corrected for storage conditions?
No
1, 3[1]
NS
2
Yes
Are precision and accuracy data presented?
No
3
Yes
4

[1] If storage conditions and storage time are the same for all fish the data will be comparable within the data set.

Number of annuli

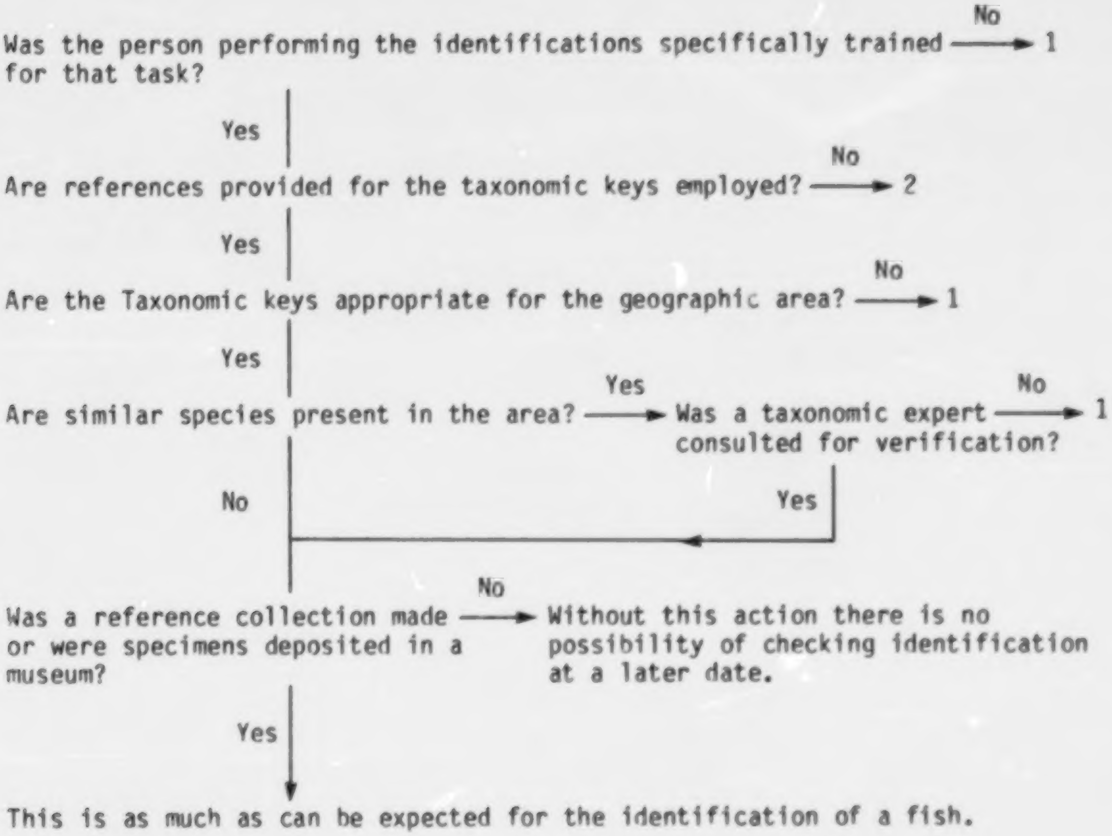

Has an appropriate body part been employed?
No
1,3[1]
Yes
Is there a complete description of how the body part was obtained?
No
2
Yes
Is there a complete description of storage methods
No
2
Yes
Is there a complete description of the preparation and viewing of the body part?
No
2
Yes
Was the person counting the annuli trained to perform this task?
No
1
NS
2
Yes
If more than one person counted annuli, were their results intercalibrated?
No
1
NS
2
Yes
Were repetitive counts made of each body part?
No
1
NS
2
Yes
Have annuli been validated for the species in question?[2]
No
3
NS
2
Yes
4

---

[1] a body part may be appropriate if the fish is young but not appropriate when the fish is older (eg scales).

[2] This step should be included for all fish species but has been done for very few. It is normally assumed that an "annulus" is, in fact, formed annually.

Identification



Was the person performing the identifications specifically trained for that task?

Are references provided for the taxonomic keys employed?

Are the Taxonomic keys appropriate for the geographic area?

Are similar species present in the area?

Was a taxonomic expert consulted for verification?

Was a reference collection made or were specimens deposited in a museum?

Without this action there is no possibility of checking identification at a later date.

This is as much as can be expected for the identification of a fish.

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Data set numbers (where applicable) are given in brackets, at the end of the reference.

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DATA TABLES

DATA TABLE 1: SUMMARY LISTING OF DATA SETS

Summary information on the data sets is given in this table. Descriptions of the information in each column is give below.

Data Set I.D.

A unique identification number has been given to each data set. This number is used whenever the data set is referred to in all of the tables. The first two digits of the I.D. number identify the year in which the data were collected. The last four digits are the identifier for a particular data set. Data sets collected in the 19th century are identified by the 18 subscript. Data sets are listed in chronological order.

Collecting Agency

This is the name of the agency responsible for collecting the data. If funding for the project was from another source, the name of the funding agency is given in brackets if this is known. Original agency names have been used. Known name changes are:

Current Name	Previous Names
Department of Fisheries and Oceans	Fisheries Branch 1915-30 Department of Fisheries 1930-68 Department of Fisheries and Forestry 1968-70 Fisheries and Marine Service 1970-76 Deptartment of Fisheries and Environment 1976-79
Indian and Northern Affairs Canada	Deptartment of Northern Affairs and National Resources Department of Indian Affairs and Northern Development
ESSO Resources Canada Ltd	Imperial Oil Co. Ltd

Collecting Period (Ship)

The dates given are as detailed as possible for the days that sampling was conducted. If general dates (such as a year or a month) are given, no more detailed dates are available.

Normally a data set covers a single year. The exceptions are the studies which were carried out by over more than one year by the same group, using the same methods and old data sets which do not indicate exact collection dates.

Because oceanographic work is often referred to by the name and date of a particular cruise, the name of the vessel used is included when this is known.

Area

Geographic location names are provided in this column. They are shown in Figure 2. More detailed information on sampling locations is given in Table 3.

Taxa Reported

The codes for the species caught are reported in this column. The list of species and their codes is in Table 1.

Biological Quantities Sampled or Measured

These are the measurements made on the fish caught or observed. The information is provided in the categories of measurement found in the "Summary of Measurements Made" section on page 10. Within each category the individual measurements are listed.

Concurrent Measurements

Concurrent measurements are those obtained on something other than fish. These could have been on physical or chemical parameters or on other biota. A list of concurrent measurement categories is given in Table 2.

Remarks

This column usually contains the purpose of the study and any other noteworthy information. For those items of information which occur frequently in the table, a series of numbered Notes has been employed. Explanations for the numbered notes are given in Appendix 1.

Of special note are data collected by the Arctic Biological Station (ABS). Information for Data Table 1 was obtained from a number of sources including Hunter and Leach (1983a, 1983b), National Museum of Canada records of specimens collected and deposited by ABS and other published and unpublished sources including ABS computer files.

Data Table 1.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
18^{96}-0001	Hopkins Laboratory, Leland Stanford Junior University	18 August - 5 September	Herschel Is., Mackenzie Delta	ARCS INCO CHAR ARCD FHSC BTSF	Number: in seine haul Identification Morphometrics: # of fin rays/ spines # of gillrakers # of lateral line scales # of branchiostegals length of various body parts Reproduction: testes, presence/ absence ovaries, presence/ absence				Fish collections made at various ports of call: Herschel Is., and from Alaskan waters - Point Barrow, Point Clarence, Chignik Bay. Specimens also obtained from native fisherman from mouth of Mackenzie R. See Walters (1953) and Able and McAllister (1980) for systematic discussions.
08-0003	American Museum of Natural History	1911[2]	Herschel Is.; Shingle Pt.; Cape Bathurst; Langton Bay	PCHR ARCS? INCO CHAR RNSM SFCD? OGAC? BRBT STSL?[1] FHSC NSSB[1] STFL	Number: in seine haul Identification Morphometrics: # of fin rays/ spines	Birds: Number Identification Morphometrics Age Reproduction Food Movements Behaviour Mammals-Pinnipeds: Number Identification Morphometrics Reproduction Behaviour Cetaceans: Number Identification Morphometrics Age Parasites Movements Behaviour		Atmosphere: Wind direction Atmospheric conditions Ice: Thickness Coverage Type	Expedition under V. Stefansson (his second expedition) backed by the American Museum of Natural History for anthropological and biological study of the western Arctic. Freshwater samples also collected. [1] From National Museum of Canada records. [2] Fish specimens at the National Museum of Canada collected in 1911.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
08-0003 Cont'd						Ice Associated: Number Identification Age Reproduction Food Behaviour			
13-0001	Canadian Arctic Expedition (Government of Canada, Department of Naval Service)	1914, 1916[2]	Herschel Is. (Pauline Cove); Shingle Pt.; Cape Bathurst; Amundsen Gulf (Walker Bay); Dolphin and Union Str. (Cape Young)	PCHR[1] ARCS[1] LSCS INCO[1] CPLN ARCD[1] SFCD OGAC[1] FLSB FHSC[1] ARSC ARFL	Number: in gillnet caught by hand Identification Morphometrics: length, standard length, total # of fin rays/ spines # of gillrakers # lateral line scales Reproduction: testes presence/ absence ovaries, presence/ absence egg diameter	Phytoplankton: Number Identification Morphometrics Zooplankton: Number Identification Morphometrics Age Reproduction Phytobenthos: Identification Zoobenthos: Number Identification Birds: Number Identification Food Behaviour Mammals-Pinnipeds: Number Identification Morphometrics Age Cetaceans:		Atmosphere: Wind speed Wind direction Precipitation Temperature Ice: Thickness Coverage Type Water Column: Temperature Salinity Current speed Current direction Depth Transparency Water level Wave Climate	Expedition under V. Stefansson (his third polar expedition) backed by the Canadian Government for geographical and scientific discovery in the Western Arctic. Fish specimens were also collected/ described from the Alaskan Beaufort Sea, from the Northwest Passage, and from freshwater. [1] From National Museum of Canada records. [2] Fish specimens stored at the National Museum of canada collected in 1914, 1916.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
13-0001 Cont'd						Number Identification Movements Behaviour Ice Associated: Number Identification Morphometrics Age Reproduction Food Movements Behaviour			
51-0026	A.H. Lawrie	a) 17-18 August; 16 September b) 3 September c) 13, 21 September	a) Herschel Is. b) Holman Is. c) Tuktoyaktuk Harbour	PCHR ARCS LKWT LSCS INCO CHAR RNSM FHSC SHSC ARFL STFL	Number: in gillnet in seine haul Identification				Fish collection obtained by A.H. Lawrie. Some specimens from domestic fisheries. Riske (1960) examined meristics of the PCHR from Tuktoyaktuk Harbour and Herschel Is.
54-0003	Canadian-United States Beaufort Sea Expedition	9-14 August; 7-10 September (U.S.C.G.C. Northwind)	Amundsen Gulf	NS	Number: in gillnet in trawl in trap killed by explosives counted from sonar scans	Phytoplankton Number Identification Zooplankton: Number Identification Phytobenthos: Number Identification Birds: Mammals-	Water Column: Nutrients Dissolved oxygen	Atmosphere: Wind speed Wind direction Precipitation Atmospheric conditions Temperature Ice: Thickness Coverage Water Column: Temperature Salinity	Objectives of biological observer on board were to: a) make observations and collections relating to the fields of marine mammalogy and fisheries, and b) to formulate impressions and suggestions regarding the desirability or direction of future biological work in the Western Arctic.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
54-0003 Cont'd						Pinnipeds: Number Identification Cetaceans: Number Identification		Depth Sound velocity	
55-0009	Fisheries Research Board (Arctic Unit)	15-19 June; 3-31 July; 1-18, 23, 25-31 August; 1-13, 17-19 September	Kugmallit Bay (Tuktoyaktuk Harbour) Liverpool Bay Eskimo Lakes Herschel Is.	PCHR^{1} ARCD^{2} FHSC^{2} ARFL^{2} STFL^{2}	Number: in gillnet in seine haul harpooned caught by hand in bottom dredge caught by plankton net Identification Morphometrics^{1}	Zooplankton: Number Identification Zoobenthos: Number Identification Morphometrics			Part of a series of fisheries investigations in the Canadian Arctic undertaken from 1947-1979. Data also collected from Hudson Bay-Foxe Basin and from freshwater. ^{1}Reported in Riske (1960) who examined meristics. ^{2}From National Museum of Canada records.
56-0010	Fisheries Research Board (Arctic Unit)	13 July - 13 September	Kugmallit Bay (Whitefish Station) Yukon Coast (Firth R., King Pt. Harbour)	LAMP^{1} ARCS^{2} LKWT^{2} BDWT^{2} LSCS^{2} INCO^{2} CHAR^{3} RNSM^{2} ARCD^{1} SFCD^{2,3} FHSC^{1} STFL^{1} ARFL^{2}	Number: in gillnet in seine haul in trawl in trap caught by hand Identification Morphometrics:^{2} Food:^{2}				See 55-0009 ^{1}From National Museum of Canada records. ^{2}Reported in Hunter (MS). ^{3}Reported in Anonymous (1957). 10,000 fish of 15 species (mostly coregonids) were captured at Whitefish Station. 1,000 fish of 7 species (coregonids, CHAR, and SFCD) were captured at Firth R.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
57-0010	Fisheries Research Board (Arctic Unit)	26 May - 23 June	Yukon Coast (Firth R.)	LSCS?[1] CHAR[1,2]	Number: in gillnet Identification				See 55-0009 Data also collected from Hudson Bay - Foxe Basin, Northwest Passage, and from freshwater. [1] Reported in Anonymous (1958). CHAR and "lake herring" were captured by gillnet at the mouth of the Firth R. in cooperation with the R.C.M.P. [2] Reported in Hunter (MS).
58-0006	Fisheries Research Board (Arctic Unit)	5-18, 21 July; 19 August - 10 September	Kugmallit Bay (Tuktoyaktuk Harbour) Wood Bay (Anderson R. mouth) Franklin Bay (Horton R. mouth)	LAMP[1,2] PCHR[2] ARCS[1,2] LKWT[2] BDWT[1,2] LSCS[1,2] INCO[1,2] PKSM[2] CHAR[2] RNSM[1,2] NRPK[2] LNSK[1] SFCD[2] BRBT[2] FHSC[1] ARFL[1,2] STFL[1,2]	Number: in gillnet caught by plankton net Identification Morphometrics: length, fork weight # of fin rays # of gill rakers # of scales # of branchiostegals # of vertebrae length of various body parts Age: # of annuli, scales # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, weight ovaries, presence/	Zooplankton: Number Identification		Water Column: Salinity Turbidity	See 55-0009 Data also collected from Hudson Bay - Foxe Basin, Davis Strait, and from freshwater. Data on PCHR reported in thesis by Riske (1960) which examined systematic relationship between North Pacific and Arctic stocks. [1] From National Museum of Canada records. [2] Reported in Riske (1960).

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
58-0006 Cont'd					absence ovaries, relative developmental stage ovaries, weight Other: # of lamprey scars				
60-0003	Fisheries Research Board (Arctic Unit)	26-30 July; 1-11, 14-23, 25-26, 29-31 August (M.V. Salvelinus)	Yukon Coast (Herschel Is., King Pt. Harbour)	PCHR[1,2] ARCS[1,2] LKWT[1,2] BDWT[2] LSCS[1,2] INCO[1] CHAR[1] CPLN[1,2] RNSM[1,2] ARCD[1,2] SFCD[1,2] ELPT[1] SDEP[2] PAEP[1] PREP[1] TSEP[1] SLEB[1] NRSL[2] STSL[1] STSL?[1] SFKR[2] RHKR[1,2] ASSC[1,2] THSC[1,2] STSC[1,2] FHSC[1] ARSC[1,2] RBSC[1,2] ARAF[1,2] BTSF[1] GLSF[1] KPSF[2] NSSB[1] ARFL[1,2] OTHER[1,3]	Number: in gillnet in seine haul in trawl killed by poison caught on longline in bottom dredge caught by plankton net Identification Morphometrics: length, total length, standard length, fork weight # of fin rays/ spines # of gill rakers # of pyloric caeca # of branchiostegals # of scales # of vertebrae length of various body parts Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/ absence testes, relative developmental stage testes, size testes, weight ovaries, presence/ absence ovaries, relative developmental	Zooplankton: Number Identification Morphometrics Age Reproduction Zoobenthos: Number Identification Morphometrics Reproduction Food Movements	Water Column: Dissolved oxygen	Water Column: Temperature Salinity	See 55-0009 D.E. McAllister, National Museum of Canada, joined the expedition to study fishes of the Western Arctic. Data collected from Hudson Bay - Foxe Basin, Davis Str. and from freshwater (Aklavik). [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] *Boreogadus* sp.?, *Artediellus* sp.; *Triglops* sp.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
60-0003 Cont'd					stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				
61-0001	Fisheries Research Board (Arctic Unit)	2, 5, 6, 9-31 July; 1-14, 17-24, 26, 27 August (M.V. Salvelinus)	Yukon Coast (Shingle Pt.) Kugmallit Bay (including Tuktoyaktuk Harbour) Liverpool Bay Eskimo Lakes Wood Bay	PCHR[1,2] ARCS[1,2] LKWT[1,2] BDWT[1,2] LSCS[1,2] LSCS?[1] INCO[1,2] CHAR[1] LKTR CPLN[2] RNSM[1,2] NRPK[2] LNSK[1] ARCD[1,2] SFCD[1,2] OGAC[1] BRBT[1] ELPT[1] PAEP[1] PREP[1] PREP?[1] BLPB[1] STEB[1] SLEB[1] RHKR[1] ASSC[1] STSC[1] FHSC[1] ARSC[1,2] SHSC[1] RBSC[1] BTSF[1] BTSF?[1] NSSB[1] ARFL[1,2] STFL[1,2] OTHER[1,3]	Number: in gillnet in seine haul in trawl killed by poison caught on handline caught by hand (dipnet) in bottom dredge caught by plankton net Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size ovaries, presence/absence ovaries, relative developmental stage egg diameter Food: gut contents, identification Parasitology: presence/absence by organ	Zooplankton: Number Identification Age Reproduction Zoobenthos: Number Identification Morphometrics Reproduction Food Movements	Water Column: Dissolved oxygen	Water Column: Temperature Salinity Transparency (secchi)	See 55-0009 Data also collected from the Northwest Passage, Hudson Bay - Foxe Basin and from freshwater. [1]From National Museum of Canada records. [2]From Arctic Biological Station computer records. [3]Coregonus sp.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
62-0001	Fisheries Research Board (Arctic Unit)	13-21; 23-31 July; 1-25, 29 August (M.V. *Salvelinus*)	Liverpool Bay Eskimo Lakes Wood Bay Amundsen Gulf (Cape Parry Harbour) Franklin Bay Langton Bay Darnley Bay	PCHR[1,2] ARCS[1,2] LKWT[1,2] BDWT[2] LSCS[1,2] RDWT[1,2] CHAR[1] LKTR[1] CPLN[1] RNSM[1,2] NRPK[2] LNSK[1] ARCD[1] SFCD[1,2] OGAC[1,2] PREP[1] FLSB[1] ASSC[1] STSC[1] FHSC[1] FHSC?[1] ARSC[1] SHSC[1,2] RBSC[1] ARAF[1] LFLS[1] DSSF[1] BTSF[1] GLSF[1] KPSF[1] NSSB[1] ARFL[1,2] STFL[1,2] OTHER[1,3]	Number: in gillnet in seine haul in trawl killed by poison in bottom dredge caught by plankton net caught by bottom grab Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage egg diameter Food: gut contents, identification Parasitology: presence/absence by organ	Zooplankton: Number Identification Morphometrics Age Reproduction Zoobenthos: Number Identification	Water Column: Dissolved oxygen	Water Column: Temperature Salinity Transparency (secchi)	See 55-0009 Data also collected from the Northwest Passage, Queen Elizabeth Is., and from freshwater. [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] *Cottus cognatus*, and *Liparis* sp.
63-0001	Fisheries Research Board (Arctic Unit)	1 June - 31 September (M.V. *Salvelinus*)	Amundsen Gulf (Cape Parry, Booth Is.) Franklin Bay Langton Bay Darnley Bay	ARCS[2] ARCD[1] SFCD[2] OGAC[1,2] FHDR[1] SDEP[1] PAEP[1] PREP[1] PREP?[1] TSEP[1]	Number: in gillnet in seine haul in trawl killed by poison caught on longline caught by jig caught by plankton net Identification	Zooplankton: Number Identification Zoobenthos: Number Identification Morphometrics	Water Column: Dissolved oxygen	Water Column: Temperature Salinity Transparency (secchi)	See 55-0009 [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] *Gymnelus hemifascia-*

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
63-0001 Cont'd				STEB[1] DBSH[1] SLEB[1] NRSL[1] STSL[1] RHKR[1] ASSC[1,2] THSC[1] STSC[1] FHSC[1] ARSC[1] SHSC[1,2] BESC[1] RBSC[1] ARAF[1] ATPH[1] LFLS[1] ASLS[1] DSSF[1] BTSF[1] GLSF[1] OTHER[1,3]	Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				tus, *Lycodes* sp., *Careproctus* sp., and *Liparis* sp.
64-0001	Fisheries Research Board (Arctic Biological Station)	4, 5, 10, 25, 28-29, 31 July; 5-6, 8-9, 13 August (M.V. *Salvelinus*)	Amundsen Gulf (Cape Parry)	SFCD[2] OGAC[2] FHDR[1] ARSC[2] SHSC[2]	Number: in gillnet caught on rod & line caught by jig caught by plankton net Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence	Zooplankton: Number Identification		Water Column: Temperature Salinity	See 55-0009 Data also collected from the Northwest Passage. [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Snip)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
64-0001 Cont'd					testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				
69-0065	Fisheries Research Board (Arctic Biological Station)	1-8 July	Minto Inlet	LSCS[1] CHAR[1] FHSC[1] ARSC[1]	Number: in gillnet Identification Movements: # of fish tagged[2]				See 55-0009 Data also collected from the Northwest Passage. [1] From National Museum of Canada Records. [2] Reported in Kristofferson and McGowan (MS). A total of 147 Char were tagged at the mouth of the Kuujjua R., 73 were recovered during the next four years, 485 near Holman Island.
70-0014	Fisheries Research Board (Arctic Biological Station)	1 September (M.V. Salvelinus)	Kugmallit Bay (Tuktoyaktuk Harbour)	ARCD[2] FHSC[1,2] ARFL[1,2]	Number: in trawl Identification Morphometrics: length, total length, fork weight Age Reproduction: testes, presence/				See 55-0009 Data also collected from the Northwest Passage and Davis Str. [1] From National Museum of Canada records. [2] From Arctic Biolo-

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
70-0014 Cont'd					absence testes, relative developmental stage testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight				of Canada records. [2] From Arctic Biological Station computer records.
70-0067	Canadian Oceanographic Identification Centre, National Museum of Canada	10-29 July	Kugmallit Bay (including Tuktoyaktuk Harbour)	PCHR[2] ARCS[2] LKWT[2] BDWT[2] LSCS[2] INCO[2] RNSM[2] FHSC[1,2] ARFL[2] STFL[2]	Number: caught by plankton net Identification Morphometrics: length, standard length, total # of fin rays # of myomeres length of various body parts Descriptive characteristics	Zooplankton: Number Identification Age			Larval fish survey of Kugmallit Bay including Tuktoyaktuk Harbour. [1] Reported in Khan (1971) who examined morphometric and meristic characteristics in order to determine criteria for identification of larvae. [2] From National Museum of Canada records.
71-0001	Fisheries Research Board (Arctic Biological Station)	17-19, 22-31 July; 2, 4-9, 15-16 August; 1, 4, 6 September (M.V. *Salvelinus*)	Kugmallit Bay (Tuktoyaktuk Harbour) Tuktoyaktuk Peninsula Liverpool Bay Eskimo Lakes	PCHR[1,2] ARCS[2] LKWT[2] BDWT[2] LSCS[2] RNSM[1,2] ARCD[1,2] TDCD[1] POCD[1] SFCD[1,2] OGAC[1] FHDR[1] ELPT[1,2] PAEP[1] PREP[1,2] BLPB[1] SLEB[1] NRSL[2] STSL[1]	Number: in gillnet in seine haul in trawl in bottom dredge caught by bottom grab Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence	Zoobenthos: Number Identification Morphometrics Reproduction	Water Column: Dissolved oxygen	Water Column: Temperature Salinity	See 55-0009 [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] *Gymnelus hemifasciatus*

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
71-0001 Cont'd				RHKR[1] ASSC[1,2] FHSC[1] ARSC[1] SHSC[1] RBSC[1,2] BTSF[1] BTSF?[1] GLSF[1] KPSF NSSB[1] ARFL[1,2] STFL[1] OTHER[1,3]	testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				
72-0007	F.F. Slaney and Co. Ltd. (for Imperial Oil Ltd.)	18-20 July; 3-20 August; 8-9 September (M.V. Arcticus)	Mackenzie Bay (outer Mackenzie Delta)	LAMP PCHR ARCS LKWT BDWT LSCS INCO LKTR RNSM NRPK LNSK SFCD BRBT FHSC NSSB ARFL OTHER[1]	Number: in gillnet in seine haul in trawl Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage Food: gut contents, identification Movements: # of fish tagged	Phytoplankton Number Identification Zooplankton: Number Identification Age Zoobenthos: Number Identification Birds: Number Identification Reproduction Food Movements Behavior Mammals-Cetaceans: Number Identification	Water Column: Dissolved oxygen Major elements Other- Alkalinity Hardness pH CO_2	Ice: Coverage Atmosphere: Wind direction Wind velocity Atmospheric conditions Air temperature Precipitation Water Column: Temperature Conductivity Current speed Current direction Depth Turbidity Transparency (secchi) Water level Wave climate	Specific objective of fishery study was to describe occurrence and distribution of demersal and pelagic fish populations. Part of an environmental study designed to assess the impact of artificial island construction. [1] Coregonus sp., Cottus ricei, Liparis sp., and pleuronectids. See also 74-0003, 75-0004, 76-0003.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
72-0007 Cont'd						Morphometrics Reproduction Food Movements Behavior			
72-0012	Aquatic Environments Ltd. (for Canadian Arctic Gas Study Ltd.)	23 June; 18, 21 July; 1, 8 August; 16 September	Yukon Coast (Clarence Lagoon, Nunaluk Spit, Roland Bay, Phillips Bay)	PCHR ARCS LKWT BDWT LSCS INCO CHAR ARGR RNSM FHSC ARFL	Number: in gillnet Identification Morphometrics: length, fork weight # of gill rakers # of pyloric caeca # of lateral line scales Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter egg number Food: gut contents, identification Parasitology: presence/absence by organ numbers, by organ identification			Water Column: Temperature Salinity	Part of an environmental impact assessment program prior to possible construction of a large diameter gas pipeline. Data also collected from freshwater. See also 73-0023.
72-0110	National Museum of Canada	27, 29, 30 July	Kugmallit Bay (Tuktoyaktuk Harbour), Amundsen Gulf,	ARCS LKWT BDWT LSCS PDSM	Number Identification				Information obtained from computer records of National Museum of Canada.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
72-0110 Cont'd			Thesiger Bay (Sachs Harbour)	RNSM OGRC BRBT THSC ARSC SHSC RBSC					Samples also taken from freshwater.
72-0112	Fisheries Research Board (Arctic Biological Station)	16-18 August; 1 September (M.V. *Salvelinus*)	Liverpool Bay	PCHR[2] LKWT[1] BDWT[1] RNSM[2] ARCD[2] SFCD[2] OGAC[1] FHDR[1] ELPT[1] PAEP[1] NRSL[2] ASSC[1,2] FHSC[1] ARSC[1] SHSC[1] BESC[2] RBSC[2] BTSF?[1] ARFL[2] STFL[2] OTHER[1,3]	Number: in gillnet in trawl Morphometrics: length, total length, fork weight Age Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ	Zoobenthos: Number Identification Morphometrics		Water Column: Temperature Salinity Transparency (secchi)	See 55-0009 [1]From National Museum of Canada records. [2]From Arctic Biological Station computer records. [3]*Coregonus* sp., *Gymnelus hemifasciatus*.
73-0016	F.F. Slaney and Co. Ltd. (for Imperial Oil Ltd., Calgary)	12-16 August	Kugmallit Bay (Tuktoyaktuk Harbour)	PCHR ARCS LKWT BDWT LSCS INCO RNSM NRPK SFCD BRBT	Number[2]: in gillnet in seine haul in trawl Identification Reproduction Food: gut contents, identification	Zoobenthos: Number Identification		Water Column: Temperature Salinity Transparency (secchi) Substrate:	Purpose was to determine importance of three potential borrow sites to fishes and invertebrates and to determine importance of certain fish species to the local community.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
73-0016 Cont'd				FHSC STFL OTHER[1]					[1] Unidentified pleuronectids, stichaeids, and larval fishes. [2] A survey also determined areas and times fished, methods used, and species taken by local domestic fishermen. Not included in compilation.
73-0023	Aquatic Environments Ltd. (for Canadian Arctic Gas Study Ltd.)	21, 22 June; 23 July; 6, 27 August; mid-September	Yukon Coast (Phillips Bay, Stokes Pt.)	ARCS LKWT LSCS INCO CHAR ARCD FHSC	Number: in gillnet Identification Morphometrics: length, fork weight # of gillrakers # of pyloric caeca # of lateral line scales Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter egg number Food: gut contents, identification			Water Column: Temperature Salinity	See 72-0012.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
73-0125	Beaufort Sea Project (Department of Environment, Arctic Biological Station)	a) 13, 15, 18-21, 23-26 July; 2-3, 6-8, 13-15, 18-20, 22, 23, 25 August; 1, 2, 5, 9 September (M.V. Salvelinus) b) 6, 9, 19, 23, 31 August; 8, 9 September (C.S.S. Parizeau)	a) Kugmallit Bay (including Tuktoyaktuk Harbour), Liverpool Bay b) Amundsen Gulf	a) LAMP[1] PCHR[1,2] ARCS[1,2] LKWT[2] BDWT[2] LSCS[1,2] INCO[2] RNSM[1,2] NRPK[2] LNSK[3] TDCD[1] ARCD[2] SFCD[2] BRBT[2] FHDR[1] ELPT[1,2] SDEP[1] PAEP[1] PREP[1] BLPB[1] SLEB[3] NRSL[2] RHKR[1] ASSC[1,2] FHSC[3] ARSC[1] RBSC[1] ARFL[1,2] STFL[2] OTHER[1,4] b) ARCD[1,3] SFCD[3] BESC[3] GLSF[3] OTHER[1,5]	Number; in gillnet in trawl Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ	Zoobenthos: Number Identification		Water Column: Temperature Salinity Transparency (secchi)	See 55-0009 Offshore mid-water trawls made from the C.S.S. Parizeau, other sampling from the M.V. Salvelinus. Note: Concurrent biological measurements included in data set 73-0035 of the zoobenthos compilation. [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] Additional species from Galbraith and Hunter (1975). [4] Gymnelus hemifasciatus [5] Gadidae, Boreogadus sp., Boreogadus sp.?, Arctogadus sp.
73-0126	Department of Environment (Fisheries and Marine Service, Whitehorse)	9, 10, 14, 15 April	Yukon Coast (King Pt., Babbage R., Shingle Pt.)	INCO FHSC	Number: in gillnet Identification Morphometrics: length			Water Column: Temperature	Purpose of study was to determine presence of and damage to fish in area under offshore seismic exploration.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
73-0126 Cont'd					Age: # of annuli, scale Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage Food: gut contents, identification				
74-0003	F.F. Slaney and Co. Ltd. (for Imperial Oil Ltd., Calgary; Sun Oil Co. Ltd.)	7, 9-18, 23, 24 July; 3-14, 28-30 August; 1, 6-10, 28, 29 September (M.V. Arcticus)	East Mackenzie Bay	LAMP ARCS LKWT BDWT LSCS INCO RNSM NRPK LNSK SFCD BRBT DBSH FHSC NSSB ARFL OTHER[1]	Number: in gillnet in seine haul in trawl Identification Morphometrics: length, fork length, total weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes relative developmental stage ovaries, presence/absence ovaries, relative developmental stage egg diameter Food: gut contents, identification	Phytoplankton Number Identification Zooplankton: Number Identification Age Zoobenthos: Number Identification Birds: Number Identification Mammals:	Water Column: Metals Nutrients Chlorophyll Dissolved oxygen Other- Alkalinity Hardness pH Suspended Particulates Settleable material Suspended particulate material	Atmosphere: Wind speed Wind direction Atmospheric conditions Water Column: Temperature Salinity Conductivity Current speed Current direction Depth Turbidity Water level	Purpose of study was to assess the effects on the environment of offshore artificial island construction during the summer of a974. Coastal areas also sampled to provide a basis for comparison. See also 72-0007, 76-0003, 78-0004 [1]Unidentified coregonids.
74-0008	Beaufort Sea Project	18, 21, 31 August	Tuktoyaktuk Peninsula	ARCS BDWT	Number: in seine haul		Water Column:	Water Column:	Purpose was to: 1) establish baseline

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
74-0008 Cont'd	Fisheries and Marine Service (Institute of Ocean Sciences)		(Tuft Pt., Drift Pt.)	LSCS ARFL OTHER[1]	Identification		Hydrocarbons Plastics Sediment: Hydrocarbons Biota: Hydrocarbons (marine and anadromous fish)	Temperature Salinity	distribution of particulate pollutants, especially tar and plastics, on the Beaufort Sea Coast; 2) establish areas with natural seepage of cruce oil, if any in the Beaufort Sea, 3) establish the chemical characteristics of hydrocarbons in beach sediment, nearshore sediment, and organisms in the nearshore environment. [1] Coregonids, cottids, and pleuronectids.
74-0011	Aquatic Environments Ltd. (for Canadian Arctic Gas Study Ltd. and Alaskan Arctic Gas Study Co.)	June - September	Yukon Coast (Nunaluk Lagoon)	ARCS LSCS INCO CHAR ARGR FHSC NSSB ARFL	Number: in gillnet in seine haul Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, weight ovaries, presence/absence ovaries, relative developmental stage egg diameter Food: gut contents, identification	Zooplankton: Number Identification Zoobenthos: Number Identification	Water Column: Metals Nutrients Dissolved oxygen Major elements Other-Alkalinity pH	Ice: Thickness Water Column: Temperature Salinity Conductivity	Environmental impact assessment of nearshore areas which may be used as locations for staging areas, wharves, and stockpile sites during construction of proposed pipeline. Data also collected from freshwater.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
74-0020	Beaufort Sea Project (Fisheries and Marine Service, Freshwater Institute)	29 June; 1, 10-12, 16-19, 24-31 July; 1-2, 8-10, 13-16, 22, 23, 25-30 August; 5-9, 11, 12, 20, 21 September	Mackenzie Bay Kugmallit Bay	PCHR ARCS LKWT BDWT LSCS RDWT INCO LKTR PDSM RNSM NRPK LNSK SFCD BRBT FHSC NSSB ARFL STFL OTHER[1]	Number: in gillnet in seine haul in trap Identification Morphometrics: length, total length, fork weight # of gill rakers # of pyloric caeca # of lateral line scales Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage Food: gut contents, volume gut contents, numbers of individuals gut contents, identification Movements: # of fish tagged # of fish recaptured		Water Column: Dissolved oxygen Other: Alkalinity Hardness pH	Water Column: Temperature Salinity Transparency (secchi)	Purpose of study was to examine the anadromous and freshwater fish resources of the outer Mackenzie Delta in response to hydrocarbon exploration activities. Data also collected from freshwater. See 75-0024. [1]Coregonids and *Percopsis omiscomaycus*.
74-0021	Beaufort Sea Project (Fisheries and Marine Service, Whitehorse)	April; 2, 7-9, 16-17, 20, 29-31 July; 1, 3, 5-7, 10-16, 22, 24-30 August; 1, 2, 4, 6	Yukon Coast (Herschel Is., Phillips Bay, Stokes Pt., King Pt., Shingle Pt.)	PCHR ARCS LKWT BDWT LSCS RDWT INCO CHAR	Number: in gillnet in seine haul Identification Morphometrics: length, total length, fork weight	Zooplankton Mammals-Pinnipeds: Identification Food	Water Column: Metals Nutrients Dissolved oxygen Major elements	Water Column: Temperature Salinity Conductivity Turbidity Transparency (secchi)	Purpose of the study was to collect baseline information regarding the inshore fisheries resources and the aquatic environment of the western coastal Beaufort Sea

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
74-0021 Cont'd		September		ARGR RNSM LNSK ARCD SFCD BRBT FHSC NSSB ARFL STFL	Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative development stage Food: gut contents, volume gut contents, identification Movements: # of fish tagged # of fish recaptured		Other- Alkalinity Hardness pH	Colour	and to identify areas that could be critically affected by a major oil spill. Data also collected from freshwater. See 75-0025.
74-0119	Beaufort Sea Project (Fisheries and Marine Service, Arctic Biological Station)	23, 24 March; 27 June; 4-7, 17-31 July; 5, 8, 11-12, 14-16, 18, 20-31 August; 1, 2, 6, 7 September; 1, 2 December (M.V. Salvelinus, M.V. Theta)	Mackenzie Bay Kugmallit Bay (including Tuktoyaktuk Harbour), Hutchison Bay Beaufort Sea (offshore)	LAMP[1,2] PCHR[2] ARCS[1,2] ARCS?[1] LKWT[1,2] BDWT[1,2] LSCS[1,2] INCO[2] CHAR[1] RNSM[1,2] ARCD[1] SFCD[2] BRBT[2] BLPB[1] SLEB[1] NRSL[2] FHSC[1] ARSC[1] NSSB[3] ARFL[2] STFL[1,2] OTHER[3,4]	Number: in gillnet in seine haul in trawl caught by plankton net caught by bottom grab Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight	Zooplankton: Number Identification Zoobenthos: Number Identification		Water Column: Temperature Salinity Transparency (secchi)	See 55-0009 Offshore mid-water trawl collections made from the M.V. Theta, other sampling from the M.V. Salvelinus. [1] From National Museum of Canada records. [2] From Arctic biological Station computer records. [3] Additional species from Galbraith and Hunter (1975). [4] Coregonus sp., Osmerus sp.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements Biological	Concurrent Measurements Chemical	Concurrent Measurements Physical	Remarks
74-0119 Cont'd					ovaries, presence/ absence ovaries, relative developmental stage egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				
75-0004	F.F. Slaney and Co. Ltd. (for Imperial Oil Ltd.)	8-14, 16-17, 26-27, 29-31 July; 5, 7, 10-14, 19 August (*Wilson III*, *Arcticus*)	Mackenzie Bay Kugmallit Bay	LAMP PCHR ARCS LKWT BDWT LSCS INCO RNSM NRPK LNSK ARCD SFCD BRBT FHSC NSSB ARFL OTHER[1]	Number: in gillnet in seine haul in trawl Identification Morphometrics: length, total length, fork weight Age: # of annuli, otolith Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage egg diameter Food: gut contents, identification	Phytoplankton Number Identification Zooplankton: Number Identification Zoobenthos: Number Identification Mammals-Pinnipeds: Number Identification Cetaceans: Number Identification	Water Column: Metals Nutrients Chlorophyll Dissolved oxygen Major elements Other- Alkalinity Dissolved solids Hardness pH Suspended Particulates Settleable material Suspended particulate material	Atmosphere: Wind speed Wind direction Air temperature Ice: Ice condition Water Column: Temperature Salinity Conductivity Current speed Current direction Turbidity	Purpose of study was to supplement existing data base for assessment of environmental effects of artificial island construction. [1] *Ammodytes* sp., unidentified coregonids, and unidentified larvae. See also 72-0007, 74-0003, 76-0003.
75-0024	Beaufort Sea Project (Fisheries and Marine Service, Freshwater Institute)	15 February; 10, 11, 14, 22 March	Mackenzie Bay Kugmallit Bay	PCHR ARCS LKWT BDWT LSCS INCO RNSM	Number: in gillnet in trap Identification Morphometrics: length, total length, fork		Water Column: Other- Alkalinity Hardness pH	Water Column: Temperature Salinity Conductivity Transparency (secchi)	See 74-0020.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
75-0024 Cont'd				BRBT FHSC ARFL STFL	weight Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage				
75-0025	Beaufort Sea Project (Fisheries and Marine Service, Whitehorse)	May; 17, 18, 20, 23, 24, 28-31 July; 4 August[1]	Yukon Coast (Herschel Is., Stokes Pt., Phillips Bay, King Pt., Shingle Pt.)	LAMP PCHR ARCS LKWT BDWT LSCS INCO CHAR CPLN RNSM NRPK SFCD BRBT FHSC ARFL STFL	Number: in gillnet in seine haul in trawl caught on longline Identification Morphometrics: length, total length, fork Age: # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage Food: gut contents, identification Movements: # of fish tagged # of fish recaptured	Zoobenthos: Number Identification Morphometrics	Water Column: Metals Nutrients Other- Alkalinity Hardness pH Total residue	Water Column: Temperature Salinity Conductivity Turbidity Tranparency (secchi) Colour	See 74-0021. [1] Probably incomplete list of dates.
75-0043	Beak Consultants Ltd. (for Canadian Marine Drilling Co. CANMAR)	23-26 July; 3-5, 11 September	Kugmallit Bay (including Tuktoyaktuk Harbour)	PCHR ARCS LKWT BDWT LSCS	Number: in gillnet Identification Morphometrics: length, total	Zoobenthos: Number Identification	Water Column: Nutrients Dissolved oxygen	Water Column: Temperature Salinity Conductivity	Purpose was to obtain environmental baseline data prior to a) commencement of off-shore drilling opera-

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
75-0043 Cont'd				INCO RNSM BRBT FHSC ARFL STFL	length, fork	Birds: Number Identification Movements Mammals - Cetaceans: Number Identification Movements Pinnipeds: Number Identification	Other- pH Sediment: Hydrocarbons Metals Other- pH Biota: Metals	Turbidity	tions and b) proposed dredging of entrance to Tuktoyaktuk Harbour.
75-0051	Beaufort Sea Project (Fisheries and Marine Service, Arctic Biological Station)	5, 9-10 May; 1, 2, 7-11, 13, 16, 17, 19-21, 26, 29 July; 1-8, 10-11, 13, 15-18, 20, 21, 24, 25, 29 August (M.V. *Salvelinus*, M.V. *Theta*)	Kugmallit Bay (including Tuktoyaktuk Harbour, Mason Bay) Hutchison Bay McKinley Bay, Beaufort Sea (offshore)	LAMP[1,2] PCHR[2] ARCS[2] LKWT[2] BDWT[1,2] LSCS[2] INCO[2] RNSM[1,2] NRPK[2] ARCD[1,2] SFCD[2] BRBT[2] ELPT[1,2] PAEP[1] BLPB[1] SLEB?[1] ASSC[1] FHSC[1] BESC?[1] RBSC[1] ARAF[1] DSSF[1] DSSF?[1] BTSF[1] GLSF[1] GLSF?[1] ARFL[1,2] STFL[1,2] OTHER[1,3]	Number: in gillnet in seine haul in trawl in bottom dredge caught by plankton net caught by bottom grab Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage	Zooplankton: Number Identification Morphometrics Age Reproduction Zoobenthos: Number Identification		Water Column: Temperature Salinity	See 55-0009. Offshore mid-water trawls made from the M.V. *Theta*, other sampling from the M.V. *Salvelinus*. *Note*: concurrent biological samples have been included in datasets 75-0009, 75-0012B, 75-0012C, and 75-0012D of the zooplankton and/or zoobenthos compilations. [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] *Boreogadus* sp., *Lumpenus* sp., *Gymnocanthus* sp., and *Liparis* sp.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
75-0051 Cont'd					ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				
76-0003	F.F. Slaney & Co. Ltd. (for Imperial Oil Ltd.)	13-14, 16-17 August; 1-2 September	Mackenzie Bay Kugmallit Bay (Artificial Island Sites: Isserk H-47, Nipterk, Kannerk)	PCHR ARCS CHAR FHSC ARFL	Number: in gillnet in seine haul Identification Morphometrics: length, fork length, total	Phytoplankton Number Identification Zooplankton: Number Identification Morphometrics Zoobenthos: Number Identification Morphometrics	Water Column: Metals Nutrients Dissolved oxygen Major elements Other- Alkalinity Dissolved solids Hardness pH Suspended Particulates: Suspended particulate material Sediments: Metals Major elements Total carbon Graphite carbon	Water Column: Temperature Salinity Conductivity Turbidity Substrate: Particle size	Part of environmental impact assessment study conducted at proposed and existing artificial island sites. See also 72-0007, 74-0003, 75-0004. See also 76-0003, 76-0004.
76-0004	F.F. Slaney & Co. Ltd. (for Imperial Oil Ltd.)	19 July; 1 September	Tuktoyaktuk Peninsula (Tuft Point)	PCHR ARCS LKWT BDWT LSCS INCO RNSM SFCD FHSC NSSB	Number: in seine haul Identification Morphometrics: length, total length, fork weight Reproduction: testes, presence/absence	Phytoplankton Number Identification Zooplankton: Number Identification Morphometrics	Water Column: Metals Nutrients Chlorophyll Dissolved oxygen Major elements Other-	Water Column: Temperature Salinity Conductivity Currents Depth	Monitoring during dredging for borrow gravel near Tuft Point. See also 76-0003 and 76-0005. [1]Other - unidentified coregonids.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
76-0004 Cont'd				ARFL OTHER[1]	testes, relative development stage testes, size ovaries, presence/ absence ovaries, relative development stage ovaries, size egg diameter Food: gut contents, % full gut contents, identification	Zoobenthos: Number Identification Morphometrics	Alkalinity Dissolved solids Hardness pH Suspended Particulates: Settleable material Suspended particulate material Sediment: Major elements Total carbon Graphite carbon		
76-0005	F.F. Slaney & Co. Ltd. (for Imperial Oil Ltd.)	8, 22 August	Kugmallit Bay (Arnak L-30 artificial island)	PCHR ARCS LSCS FHSC	Number in gillnet Identification Morphometrics: length, total length, fork weight Age[1] Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage ovaries, size ovaries, weight egg diameter Food: gut contents, % full gut contents, identification	Phytoplankton Number Identification Zooplankton: Number Identification Morphometrics Food (grazing rate) Zoobenthos: Number Identification Morphometrics	Water Column: Metals Nutrients Dissolved oxygen Major elements Other- Alkalinity Dissolved solids Hardness pH Suspended Particulates; Settleable material Suspended particulate material Sediments: Metals Major elements: carbon	Atmosphere: Wind speed Wind direction Atmospheric conditions Water Column: Temperature Salinity Conductivity Current speed Current direction Depth Turbidity Transparency Wave climate Substrate: Particle size	Bio-physical program of aquatic studies before, during, and after island construction to determine effects of uncontained hydraulic fill activities. See 76-0003 and 76-0004. [1] Scales and otoliths collected but not analyzed.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
76-0020	Department of Fisheries & Environment (Arctic Biological Station)	14, 18-20, 23, 31 July; 3-4, 6, 10, 16, 19, 24 August (M.V. *Salvelinus*)	Kugmallit Bay (including Tuktoyaktuk Harbour) Liverpool Bay	PCHR[2] ARCS[2] LSCS[2] RNSM[1], TDCD[2] ARCD[2] SFCD[2] BRBT[1,2] FHDR[2] ELPT[1,2] ELPT?[1] PAEP[1,2] PREP[1,2] BLPB[1] STEB[1,2] NRSL[2] ASSC[1,2] STSC[1,2] FHSC[1] RBSC[1,2] BTSF[1] KPSF[1,2] ARFL[2] STFL[2]	Number in trawl Identification Morphometrics: length, total length, fork weight Age Reproduction: testes, presence/absence testes, relative developmental stage testes, size testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ	Zoobenthos: Number Identification Morphometrics Reproduction		Water Column: Temperature Salinity Tranparency (secchi)	See 55-0009. [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records.
76-0036	F.F. Slaney & Co. Ltd. (for Gulf Oil Canada Ltd.)	24, 27 June; 1, 10, 11 August; 12, 17, 18, 19 September	Eskimo Lakes (Hans Bay)	PCHR LKWT BDWT LSCS RDWT LKTR ARGR NRPK BRBT FHSC STFL OTHER[1]	Number in gillnet in seine haul Identification Morphometrics Age Reproduction Food	Phytoplankton Number Identification Age Zooplankton: Number Identification Age	Water Column: Nutrients Chlorophyll Dissolved oxygen Other- Alkalinity Hardness pH Suspended Particulates	Ice: Thickness Water Column: Temperature Salinity Conductivity Depth Turbidity Transparency (Secchi) Colour	Compilation incomplete because only a partial copy of report was obtained. [1] *Cottus cognatus* and unidentified coregonids.
77-0002	Aquatic Environments Ltd. (for Imperial Oil Ltd.)	15-25 July; 26 August - 3 September	Tuktoyaktuk Peninsula (Tuft Pt.)	PCHR ARCS LKWT BDWT LSCS	Number: in gillnet in seine haul in trawl caught by plankton	Phytoplankton Number Identification	Water Column: Dissolved oxygen Other-	Water Column: Temperature Salinity Conductivity	Environmental baseline study designed to assess the effects of Imperial Oil borrow operations on local

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
77-0002 Cont'd				INCO RNSM ARCD SFCD STEB STSL ASSC FHSC NSSB ARFL STFL	net Identification Morphometrics: length, total length, fork weight Age: # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification	Zooplankton: Number Identification Zoobenthos: Number Identification	pH Suspended Particulates: Suspended particulate material	Turbidity	fish populations and to produce guidelines in deciding on future borrow sites.
77-0009	Envirocon Ltd. (for Imperial Oil Ltd.)	26-31 July; 22-29 August (M.V. *Imperial Immerk*)	Beaufort Sea (Isserk F-27 Artificial Is.)	ARCS LSCS CHAR ARCD FHSC OTHER	Number: in gillnet in trawl caught by plankton net Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative	Phytoplankton Number Identification Zooplankton: Number Identification Morphometrics Zoobenthos: Number Identification Morphometrics	Water Column: Nutrients Chlorophyll Dissolved oxygen Other-Alkalinity Sediment: Major elements	Atmosphere: Wind speed Wind direction Temperature Atmospheric conditions Water Column: Temperature Salinity Conductivity Current speed Current direction Depth Transparency (secchi) Wave climate Irradiance	Environmental investigation around the site of the artificial island, Isserk F-27, during its construction. Flesh from fishes was later used for trace metal analysis by Beak Consultants Ltd.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
77-0009 Cont'd					developmental stage Food: gut contents, identification			Substrate: Particle size	
77-0020	Department of Fisheries & Environment (Pacific Region)	27-31 July; 1 August	Yukon Coast (lagoon draining Sabine Lake, southeast of King Pt.)	PCHR ARCS LKWT BDWT LSCS INCO RNSM FHSC OTHER[1]	Number: in gillnet in seine haul Identification Morphometrics: length, total weight Age: # of annuli, scale Reproduction: testes, presence/absence ovaries, presence/absence Food: gut contents, number of individuals gut contents, identification	Zooplankton: Number Identification Zoobenthos: Number Identification		Water Column: Temperature Salinity	Environmental impact assessment of proposed location for offloading of hydrocarbons. [1] Arctogadus pearyii. (See Nielsen and Jensen (1967) for taxonomic discussion).
77-0035	Department of Fisheries & Environment (Arctic Biological Station)	18, 21-22, 25-31 July; 1-6, 8-10, 12-16, 20, 21, 23, 25 August (M.V. Salvelinus)	Kugmallit Bay McKinley Bay Hutchison Bay Liverpool Bay Wood Bay Harrowby Bay Franklin Bay Amundsen Gulf	LAMP[1,2] PCHR[1,2] ARCS[1,2] LKWT[2] BDWT[1,2] LSCS[1,2] INCO[2] CPLN[1] RNSM[1,2] POCD[1] ARCD[1] ARCD?[1] SFCD[1,2] FHDR[1,2] ELPT[1,2] SDEP[1,2] PAEP[1,2] PAEP[1,2] PREP[1,2] PREP?[1] TSEP[1,2]	Number: in gillnet in seine haul in trawl caught by hand Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage testes, size	Zoobenthos: Number Identification Morphometrics		Water Column: Temperature Salinity Transparency (secchi)	See 55-0009. [1] From National Museum of Canada records. [2] From Arctic Biological Station computer records. [3] Clupea sp., Gadidae, Boreogadus sp.?, Lycodes sp., Gymnocanthus sp., Triglops sp., Icelus sp., Liparis sp. Raja sp. also reported by Hunter (MS).

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
77-0035 Cont'd				AHEP[1,2] LEEP[1] BLPB[1] STEB[2] SLEB[1] RHKR[1] ASSC[1,2] THSC[1,2] STSC[1,2] FHSC[1] ARSC[1,2] ARSC?[1] BESC[1,2] RBSC[1,2] RBSC?[1] ARAF[1,2] ATPH[1,2] DSSF[1] BTSF[1] BTSF?[1] GLSF[1,2] GLSF?[1] KPSF[2] NSSB[1] ARFL[1,2] STFL[1,2] OTHER[1,3]	testes, weight ovaries, presence/absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, identification Parasitology: presence/absence by organ				
78-0030	Department of Fisheries & Oceans (Freshwater Institute)	14-17 March; 1, 4, 9-20, 28, 30 August; 1, 3, 8 September	Tuktoyaktuk Peninsula (Kukjuktuk Bay)	PCHR ARCS LKWT BDWT LSCS INCO RNSM SFCD FHSC ARFL STFL	Number: in gillnet in seine haul in trawl in trap Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/	Zoobenthos: Number Identification	?	?	Purpose of study was to evaluate the utilization of Kukjuktuk Bay by anadromous and marine fishes to determine importance of the bay to fishes utilizing the lake system draining into it via Kukjuktuk Creek. See also 79-0037. Samples also collected from freshwater.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
78-0030 Cont'd					absence ovaries, relative developmental stage Food: gut contents, weight gut contents, numbers of individuals gut contents, identification Movements: # of fish tagged				
78-0031	Department of Fisheries & Oceans (Freshwater Institute)	26-29 June; 30-31 July; 1-5 August; 1-4 September 1978; 28-29 June; 15-20 July; 1-8 August; 16-29 September 1979; 1-7 July; 1-6 August; 5-10 September 1980	Mackenzie Bay Kugmallit Bay Tuktoyaktuk Peninsula	PCHR ARCS LKWT BDWT LSCS INCO LKTR PDSM RNSM NRPK LNSK ARCD SFCD BRBT FHSC NSSB ARFL STFL OTHER[1]	Number: in gillnet in seine haul Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage Food: gut contents, weight gut contents, identification		Water Column: Metals Nutrients Chlorophyll Dissolved oxygen Major elements Other- Alkalinity pH	Atmosphere: Wind speed Wind direction Water Column: Temperature Salinity Conductivity Depth	Purpose of study was to describe distributions and biological characteristics of fish species in coastal freshwater and estuarine environments near the Mackenzie Delta. [1] Cottus ricei, Percopsis omiscomaycus.
78-0111	Department of Fisheries & Oceans (Arctic	27 July	Prince Albert Sound	ASLS OTHER[1]	Number Identification				Information obtained from computer records of National Museum of Canada.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
78-0111 Cont'd	Biological Station)								[1]Cottidae, *Ammodytes* sp., *Eumicrotremus* sp.
79-0037	Department of Fisheries & Oceans (Freshwater Institute)	25-26 May; 4, 5, 7, 8, 13, 15, 17-18, 20, 21, 23, 24, 26 June; 1, 4, 6-17, 23, 25, 28 July; 6, 18, 24-28 August; 3, 5, 20 September	Tuktoyaktuk Peninsula (Kukjuktuk Bay)	PCHR ARCS LKWT BDWT LSCS INCO RNSM SFCD FHSC ARFL STFL	Number: in gillnet in seine haul Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage Food: gut contents, volume gut contents, identification Movements: # of fish tagged Parasitology: presence/absence	Zooplankton Zoobenthos Phytobenthos	Water Column: Chlorophyll Dissolved oxygen Sediment: Metals	Atmosphere: Wind speed Wind direction Precipitation Atmospheric conditions Water Column: Temperature Salinity Conductivity Current speed Transparency (secchi)	See 78-0030.
79-0039	Department of Fisheries & Oceans (Freshwater Institute)	25, 26 July; 9, 29 August; 26 September; 1979; 13-15 April; 25-28, 31 May; 1-2, 12-13 June; 7-10, 13-18, 20-23, 28-31	Kugmallit Bay (Tuktoyaktuk Harbour)	PCHR ARCS LKWT BDWT LSCS INCO PDSM RNSM SFCD BRBT ELPT	Number: in gillnet in seine haul Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli,	Zoobenthos: Number Identification	Water Column: Metals Nutrients Chlorophyll Dissolved oxygen Major elements Other- pH	Water Column: Salinity Conductivity Sediment: Particle size	Purpose of study was to describe the seasonal changes in the fish community of Tuktoyaktuk Harbour and to assess the significance of the harbour to marine and anadromous fishes occurring there.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
79-0039 Cont'd		July; 2-7, 10-13, 15-19 August; 4-12 September 1980; 7-9 January; 20-23 March, 1981		FHSC NSSB ARFL STFL OTHER[1]	otolith Reproduction: testes, presence/ absence testes, relative developmental stage testes, weight ovaries, presence/ absence ovaries, relative developmental stage ovaries, weight egg diameter Food: gut contents, weight gut contents, identification		Sediment: Organic content		[1]Unidentified osmerids and coregonids.
80-0006	Beak Consultants Ltd. (for ESSO Resources Canada Ltd.)	27-29, 31 August; 1, 3 September	Beaufort Sea (Issungnak 0-61 artificial island)	OTHER[1]	Number: caught by bottom grab Identification Morphometrics: length, total Food: gut contents, identification	Zoobenthos: Number Identifica- dentifica- Morphometrics	Sediment: Hydrocarbons Metals Major elements Biota: Metals	Sediment: Other- Size distribution	Purpose of study was to document levels of chemical parameters in sediments and biota and to determine the status of the zoobenthic community. Fishes were collected incidentally. [1]Larval fishes - Stichaeidae, Pholidae, Cottidae, and Cyclopteridae.
80-0041	Dobrocky Seatech Ltd. (for Dome Petroleum)	11, 14, 15, 18-20 August; 3, 4, 6, 8, 21-26 September (M.V. Arctic Dawn)	Kugmallit Bay (Tuktoyaktuk Harbour and adjacent Kugmallit Bay)	PCHR ARCS LKWT BDWT LSCS INCO RNSM ARCD SFCD BRBT FHSC KPSF	Number: in gillnet in seine haul in trawl counted from sonar scans Identification Morphometrics: length, total length, fork Reproduction: testes, presence/			Water Column: Temperature Salinity	Investigation of fish populations prior to dredging approach channel to Tuktoyaktuk Harbour. Fish populations also examined in Tuktoyaktuk Harbour at CANMAR dredging site and at three proposed borrow sites.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
80-0041 Cont'd				NSSB TSSB ARFL STFL	absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage Food: gut contents, number of individuals gut contents, identification				
80-0105	L.H. Pelletier and D.J. Wilson (for Regional Ocean Dumping Advisory Committee)	27 July; 2, 6-8, 14-15, 19-21 August; 3-6, 8-11 September; 14-31 October; 1-3 November	Kugmallit Bay (Tuktoyaktuk Harbour) McKinley Bay	ARCS LKWT LSCS INCO ARCD SFCD FHSC OTHER[1]	Number: passed through dredge Identification Morphometrics: length, total length, fork				Purpose of study was to attempt to monitor fish entrainment by a cutter-suction dredge and to determine feasibility of monitoring techniques. [1] Coregonids, gadids, cottids, and unidentified fishes.
81-0029	Department of Fisheries & Oceans (Freshwater Institute)	9-11, 19, 24, 28 May; 2, 5-15 June	Kugmallit Bay (Tuktoyaktuk Harbour) Liverpool Bay	PCHR ARCS LKWT BDWT LSCS INCO RNSM SFCD BRBT FHSC ARFL	Number: in gillnet Identification Morphometrics: length, standard length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence			Atmosphere: Atmospheric conditions Ice: Thickness Water Column: Temperature	Purpose of study was to determine the feasibility of developing a herring roe fishery in the study area. See also 82-0111 and 83-0059, 85-0012.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements: Biological	Concurrent Measurements: Chemical	Concurrent Measurements: Physical	Remarks
81-0029 Cont'd					ovaries, relative development stage ovaries, weight Food: gut contents, identification				
81-0031	G.E. Hopky and R.A. Ratynski (for Department of Fisheries and Oceans, Freshwater Institute)	28 June - 5 September	Kugmallit Bay (Tuktoyaktuk Harbour)	PCHR ARCS LKWT BDWT LSCS INCO POSM RNSM MRPK LNSK ARCD SFCD BRBT ELPT BLPB SLEB FHSC NSSB ARFL STFL	Number: in gillnet in trawl in trap Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith # of annuli, cleithrum Reproduction: testes, presence/absence testes, relative development stage ovaries, presence/absence ovaries, relative developmental stage ovaries, weight Food: gut contents, volume gut contents, identification Movements: # of fish tagged # of fish recaptured	Zooplankton	Water Column[1]: Metals Nutrients Chlorophyll Dissolved oxygen Major elements Other- pH Suspended Particulates[1]: Suspended particulate material Carbon Nitrogen	Water Column[1]: Temperature Salinity Conductivity	Purpose of study was to provide additional information on the importance of Tuktoyaktuk Harbour to the fish species found there. [1] Collected for an associated study of Tuktoyaktuk Harbour undertaken concurrently with this study. (L. de March, personal communication).
82-0105	Department of Fisheries & Oceans (Pacific Region)	12 August - 6 September[1]	Yukon Coast (King Pt., Kay Pt., Sabine Pt., Shingle Pt.)	PCHR ARCS BDWT LSCS CHAR	Number: in gillnet counted from sonar scan Identification			Water Column: Temperature	Purpose of study was to determine the timing and the pattern of migrations of anadromous fishes from near-

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
82-0105 Cont'd				FHSC ARFL OTHER[2]	Morphometrics: length, total length, fork weight Age: # of annuli, scale Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage Food: gut contents, identification Movements: direction of movement				shore to the 10 m depth contour prior to proposed construction at King Pt. of a causeway. Data also collected from freshwater (Trail R.). [1]Some intervening days not sampled because of inclement weather or ice. [2]Surf smelt (Hypomesus pretiosus).
82-0111	Department of Fisheries & Oceans (Freshwater Institute)	2, 4-18, 20-22, 24, 25, 27 June; 2-6 July	Kugmallit Bay (Tuktoyaktuk Harbour) Liverpool Bay	PCHR ARCS LKWT BDWT LSCS INCO LKTR ARCD SFCD FHSC STFL	Number: in gillnet Identification Morphometrics: length, standard weight Age: # of annuli, otolith Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage ovaries, weight			Water Column: Temperature	See also 81-0029, 83-0059 and 85-0012.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
82-0112	R.A. Ratynski (for Department of Fisheries and Oceans, Freshwater Institute)	8 July - 25 August	Kugmallit Bay (Tuktoyaktuk Harbour and adjacent Kugmallit Bay)	Adults: ARCS LKWT BDWT LSCS INCO FHSC NSSB ARFL STFL Larvae: PCHR RNSM ARCD SFCD FHSC STFL OTHER[1]	Number: in seine haul caught by plankton net Identification Morphometrics: length, total length, fork	Zooplankton Zoobenthos	Water Column[2]: Metals Nutrients Chlorophyll Dissolved oxygen Major elements Other- pH Suspended Particulates[2]: Suspended particulate material Carbon Nitrogen	Water Column[2]: Temperature Salinity	Purpose of study was to determine the utilization of Tuktoyaktuk Harbour as a spawning/rearing area for marine and anadromous fishes. [1] Unidentified coregonids and stichaeids. [2] Collected concurrently currently during an associated study of Tuktoyaktuk Harbour. (L. de March, personal communication).
82-0113	Wildlife Service, Government of the Northwest Territories (Coppermine) Department of Fisheries & Oceans (Freshwater Institute)	24-25 August	Prince Albert Sound (Safety Channel)	CHAR	Number: in commercial fishery Identification Morphometrics: length, fork weight Age: # of annuli, otolith Reproduction: testes, presence/absence ovaries, presence/absence				Monitoring of test fishery by the Inuvialuit Development Corporation of Inuvik. See 83-0060 85-0020
83-0059	Department of Fisheries & Oceans (Freshwater Institute)	11-19 June[1]; 12-15 September	Liverpool Bay	PCHR ARCS LKWT BDWT LSCS SFCD FHSC STFL	Number: in gillnet in commercial fishery Identification Morphometrics: length, standard weight Age: # of annuli, otolith Reproduction:			Water Column: Temperature	See also 81-0029 82-0111 85-0012 [1] Commercial fishery during this period.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
83-0059 Cont'd					testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage ovaries, weight				
83-0060	Department of Fisheries & Oceans (Freshwater Institute)	23-30 August	Prince Albert Sound (Safety Channel, Kagloryuak Channel)	CHAR	Identification Morphometrics: length, fork weight Age: # of annuli, otolith Movements: # of fish tagged # of fish recaptured				Monitoring of test fishery (Safety Channel) and commercial fishery (Kagloryuak R.) in Prince Albert Sound. See 82-0113 85-0020
84-0032	Department of Fisheries & Oceans (Freshwater Institute)	7, 14-16, 23-26 July; 7-10 September (M.V. Sequel)	Mackenzie Bay Kugmallit Bay (including Tuktoyaktuk Harbour) Offshore Beaufort Sea	ARCD ASSC RBSC ARAF OTHER[1] Larvae: RNSM ARCD ASSC FHSC RBSC OTHER[2]	Number: in trawl caught by plankton net Identification Morphometrics: length, fork Food: gut contents, number of individuals gut contents, identification	Zooplankton: Number Identification		Water Column: Temperature Salinity Transparency (secchi) Depth	[1]Zoarcids, cyclopterids; list of species incomplete [2]Stichaeids, agonid, cyclopterids
85-0012	Department of Fisheries & Oceans	7-19 June	Liverpool Bay	PCHR ARCS BDWT LSCS ARCD SFCD FHSC ARFL STFL	Number: in gillnet Identification Morphometrics: length, standard weight Age: # of annuli, scale # of annuli, otolith				See also 81-0029 82-0111 83-0059

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
85-0012 Cont'd					Reproduction: testes, presence/ absence testes, relative developmental stage ovaries, presence/ absence ovaries, relative developmental stage				
85-0013	Department of Fisheries & Oceans (Freshwater Institute)	18-26 July; 4-12 August; 2-12 September (M.V. Sequel)	Mackenzie Bay Kugmallit Bay (including Tuktoyaktuk Harbour) Offshore Beaufort Sea	PCHR RNSM ARCD ASSC FHSC RBSC GLSF DSSF? OTHER[1]	Number: caught by plankton net Identification	Zooplankton: Number Identification Zoobenthos: Number Identification	Water Column: Chlorophyll	Water Column: Temperature Salinity Transparency (Secchi) Depth	Analyses in progress. [1] Icelus sp., and unidentified coregonids and stichaeids. Arctogadus sp. tentatively identified.
85-0014	Department of Fisheries & Oceans (Freshwater Institute)	27 June - 21 August	Yukon Coast (Phillips Bay)	PCHR ARCS LKWT BDWT LSCS INCO CHAR ARGR RNSM SFCD FHSC ARFL OTHER[1]	Number: in gillnet in seine haul Identification Morphometrics: length, total length, fork weight Age: # of annuli, scale # of annuli, otolith Reproduction: testes, presence/ absence testes, relative developmental stage testes, weight ovaries, presence/ absence ovaries, relative developmental stage ovaries, weight Food: gut contents, weight gut contents, identifications			Water Column: Temperature Salinity	[1] Unidentified larval fishes.

Data Table 1 Continued.

Data Set I.D.	Collecting Agency	Collecting Period (Ship)	Area	Taxa Reported	Biological Quantities Sampled or Measured	Concurrent Measurements			Remarks
						Biological	Chemical	Physical	
85-0018	North/South Consultants Inc. (for Department Renewable Resources, Yukon Territory)	9 July - 12 August	Herschel Is.	ARCS LKWT LSCS CHAR RNSM ARCD SFCD FHSC ARSC ARFL OTHER[1]	Number: in gillnet in seine haul caught by plankton net Identification Morphometrics: length, total length, fork weight Reproduction: testes, presence/absence ovaries, presence/absence				Purpose of study was to determine the mid-summer fisheries resources as part of the Herschel Is. Territorial Park Planning and Development Project. Samples also obtained from freshwater. [1] Stichaeid larvae.
85-0019	Archipelago Marine Research (for Department of Fisheries & Oceans)	12-16 July	Liverpool Bay	PCHR	Reproduction: egg number	Zooplankton: Identification Zoobenthos: Identification Phytobenthos Identification		Water Column: Temperature Salinity Depth	Diver survey of herring spawnings in order to investigate the feasibility of a roe fishery in Liverpool Bay. See also 81-0029 82-0111 83-0059 85-0012
85-0020	Department of Fisheries & Oceans (Freshwater Institute)	12-24 August	Prince Albert Sound (Kuuk R. Kagloryuak R. Naloagyok R. Kagluk R.)	CHAR	Number: in gillnet Identification Morphometrics: length, fork weight Age: # of annuli, otolith Reproduction: testes, presence/absence testes, relative developmental stage ovaries, presence/absence ovaries, relative developmental stage				Test fishery of four areas at the east end of Prince Albert Sound. See 82-0113 83-0060

DATA TABLE 2: FISH MEASUREMENTS: SAMPLING INTENSITY, METHODOLOGY AND RATING

Data Table 2 presents specific information on all of the measurements in each data set. As in Data Table 1, data sets are listed chronologically and by data set number. Explanations of the information in each column are give below.

Data Set I.D.

A unique identification number has been given to each data set. This number is used whenever the data set is referred to in all of the tables. The first two digits of the I.D. number identify the year in which the data were collected. The last four digits are the identifier for a particular data set. Data sets collected in the 19th century are identified by the 18 subscript. Data sets are listed in chronological order.

Measurement

Specific measurements are listed in the order they are presented in Data Table 1.

Species

All of the species that were measured are listed for each measurement.

No. of Samples

For each measurement, the numbers of individuals of each species is given. Numbers may not agree between different measurements because not all measurements were necessarily made on all fish.

No. of Stations

This is the number of specific locations at which fishing was carried out.

Gear Type

This column names the type of sampling gear used to catch fish.

Gear Description

The known measurements of the gear such as mesh sizes, lengths and depths of nets, etc. are given here.

Gear Deployment

This column describes the methods used to fish with the given gear type. This could include trawling speed, depth of net sets, etc.

Sample Storage

If samples were preserved in some way before a measurement was made, the storage method is described.

Sample Analysis

Known details about measurement methodology are provided in this column.

Precision

The level of random error is indicated if multiple measurements were obtained for a sample. N/A indicates that precision is inapplicable, NS indicates that it is not known whether or not precision was determined.

Accuracy

If the measurement technique was tested against a known standard, the level of systematic error is provided in this column. N/A indicates that Accuracy is inapplicable, NS indicates that it is not known whether or not accuracy was determined.

Data Rating

The rating has been assigned to each type of measurement according the rating factors. N/A indicates that rating the data is not applicable.

Remarks

Additional comments are presented here. Common remarks are indicated by numbered Notes which are explained in Appendix 1.

With one exception, information on data collected by the Arctic Biological Station was obtained exclusively from their computer files. Data collected prior to 1960 has not been entered in these files. More modern data on two common species, namely charr (*Salvelinus alpinus*) and fourhorn sculpin (*Myoxocephalus quadricornis*) and on a number of less common species such as blackline prickleback (*Acantholumpenus mackayi*), slender eelblenny (*Lumpenus fabricii*) and dusky snailfish (*Liparis gibbus*) are also not in the computer files.

DATA TABLE 2

Data Table 2.

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
55-0009	Number:						
	in gillnet	ones	Note 19	Note 20	8	gillnet	Note 1
	in seine haul	ones	Note 19	Note 20	3	a) beach seine	Note 2
					5	b) hand seine	0.9 m
	harpooned	ones	Note 19	Note 20	2	rifle & harpoon	Note 3
	caught by hand	ones	Note 19	Note 20	2	hand	Note 3
	in bottom dredge	ones	Note 19	Note 20	2	bottom dredge	Note 3
	caught by plankton net	ones	Note 19	Note 20	1	plankton net	various sizes Note 3
	Identification	N/A	Note 4	Note 4	Note 4	see number	see number
56-0010	Number:						
	in gillnet	ones (#/net/ 24 hr)	Note 19	Note 20	4	gillnet	38 and 63 mm mesh sizes; Note 1
	in seine	ones	Note 19	Note 20	2	a) beach seine	Note 2
					4	b) hand seine	0.9 m
	in trawl	ones	Note 19	Note 20	1	otter trawl	Note 5
	in trap	ones	Note 19	Note 20	1	fish trap	Note 3
	caught by hand	ones	Note 19	Note 20	1	hand	Note 3
	Identification	N/A	Note 4	Note 4	Note 4	see number	see number
57-0010	Number:						
	in gillnet	ones	Note 19	Note 20	1	gillnet	76 and 89 mm mesh sizes Note 1
	Identification	N/A	Note 4	Note 4	1	see number	see number
58-0006	Number:						
	in gillnet	ones	LAMP PCHR ARCS LKWT BDWT LSCS INCO PKSM	Note 20	3	gillnet	Note 1

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 2 NS	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
NS	none, analysis on site, or 10% formalin	Note 4	NS	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 2 NS	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
58-0006 Cont'd	In gillnet cont'd		CHAR RNSM NRPK LNSK SFCD BRBT FHSC ARFL STFL Note 19				
	In plankton net	ones	Note 19	Note 20	1	plankton net	plankton net mounted on a sled; Note 3
	Identification	N/A	LAMP PCHR ARCS LKWT BDWT LSCS INCO PKSM CHAR RNSM NRPK LNSK SFCD BRBT FHSC ARFL STFL Note 4	Note 4 211	Note 4	gillnet	see number
	Morphometrics: length, fork	mm	PCHR Note 4	163 Note 4	Note 4	gillnet	see number
	weight	g	PCHR Note 4	163 Note 4	Note 4	gillnet	see number
	# of fin rays	ones	PCHR Note 4	161 Note 4	Note 4	gillnet	see number
	# of gillrakers	ones	PCHR Note 4	161 Note 4	Note 4	gillnet	see number
	# of scales	ones	PCHR Note 4	161 Note 4	Note 4	gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
NS	10% formalin	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	identification of PCHR verified through meristic and morphological comparisons; Clemens and Wilby (1946); Note 4	N/A	N/A	N/A	List of species is from Tuktoyaktuk Harbour only. Specimens deposited at National Museum of Canada.
see number	none, analysis on site	measuring board with meter stick; to nearest mm	NS	NS	3	
see number	none, analysis on site	NS	NS	NS	2	
see number	10% formalin; transferred to 50% isopropyl alcohol	number of fin rays counted for dorsal, anal, both pectoral and both pelvic fins	NS	NS	3	
see number	10% formalin; transferred to 50% isopropyl alcohol	total number on left first arch	NS	NS	3	
see number	10% formalin; transferred to 50% isopropyl alcohol	counts made on lateral line scales (mid-lateral row from opercular opening to base of caudal fin), "keel" scales (scales which edge abdominal keel between pelvic fin base and anus), dorsal scales (from dorsal fin origin postero-ventrally	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
58-0006 Cont'd	# of scales cont'd						
	# of branchiostegals	ones	PCHR Note 4	157 Note 4	Note 4	gillnet	see number
	# of vertebrae	ones	PCHR Note 4	159 Note 4	Note 4	gillnet	see number
	length of various body parts	mm	PCHR Note 4	161 Note 4	Note 4	gillnet	see number
	Age: # of annuli, scale	years	PCHR Note 4	124 Note 4	Note 4	gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
		to the lateral line scale), ventral scales (from anal fin origin anterodorsally to lateral line scale)				
see number	10% formalin; transferred to 50% isopropyl alcohol	total number on both branchiostegal membranes	NS	NS	3	
see number	10% formalin; transferred to 50% isopropyl alcohol; Kodak Blue Brand Medical X-ray film	counts on total vertebrae (not including basioccipital and hypural), abdominal vertebrae (between basioccipital and the first closed haemal arch) and caudal vertebrae (from first closed haemal arch to the urostyle) specimens with abnormalities such as fused centra and extra spines not utilized	NS	NS	3	
see number	10% formalin; transferred to 50% isopropyl alcohol	Measurements made on left side of fish for: head length, snout length, postorbital length, eye diameter, and interorbital width; measured with calipers the points of which on the metre scale; usually to nearest mm	NS	NS	2	
see number	stored dry between pages of a notebook	cleaned in water, 10 scales placed dry between glass slides which were taped together; examined with a Reichert Lanameter (45X) scales of fish estimated to be over age 6 were re-read to increase reliability of data. Three scales agreeing in age of the 10 per slide was the criterion for determining age	NS	NS	1,3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
58-0006 Cont'd	# of annuli, scale cont'd						
	Reproduction:						
	testes, presence/ absence	N/A	PCHR Note 4	68 Note 4	Note 4	gillnet	see number
	testes, relative developmental stage	N/A	PCHR Note 4	12 Note 4	Note 4	gillnet	see number
	testes, weight	g	PCHR Note 4	7 Note 4	Note 4	gillnet	see number
	ovaries, presence/ absence	N/A	PCHR Note 4	141 Note 4	Note 4	gillnet	see number
	ovaries, relative developmental stage	N/A	PCHR Note 4	327 Note 4	Note 4	gillnet	see number
	ovaries, weight	g	PCHR Note 4	15 Note 4	Note 4	gillnet	see number
	Parasitology: Other # of lamprey scars	ones	PCHR	151		gillnet	see number
60-0003	Number:						
	in gillnet	ones (#/net/ 24 h)	PCHR ARCS LKWT LCSC CPLN RNSM ARCD SFCD SDEP ARFL	Note 20	11	gillnet	25, 63, 76, 89, and 102 mm mesh sizes; Note 1
	in seine haul	ones	ARCS CPLN ARCD	87	5	beach seine	Note 2

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
		ageing difficult because of presence of transverse lines crossing scales from side to side. Older fish frequently had regenerated scales				
see number	none, analysis on site	NS	N/A	N/A	N/A	
see number	none, analysis on site; re-examined after preservation in 10% formalin, then transferred to 50% isopropyl alcohol	gonads classified as: 1) immature 2) gonads beginning to fill, slightly swollen 3) gonads 0.5 full 4) gonads 0.75 full to ripe and running 5) spent	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	
see number	none, analysis on site	NS	N/A	N/A	N/A	
see number	none, analysis on site; re-examined after preservation in 10% formalin, then transferred to 50% isopropyl alcohol	gonads classifed as: 1) immature, 2) gonads beginning to fill, slightly swollen 3) gonads 0.5 full 4) gonads 0.75 full to ripe and running, and 5) spent	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	
see number	none, analysis on site	counted by ones	NS	NS	4	Frequency of lamprey attacks estimated by counting scars on netted PCHR.
Note 1	none; analysis on site	counted by ones	NS	NS	2	
Note 2	none; analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
60-0003 Cont'd	in seine haul		NRSL				
			ARSC				
			ARFL				
	in trawl	ones	CPLN	20?	20	otter trawl	Note 5
			ARCD				
			SDEP				
			SFKR				
			ASSC				
			THSC				
			STSC				
			RBSC				
			ARAF				
			KPSF				
			ARFL				
	in trawl	ones	NS	4	4	stramen trawl	Note 6
	killed by poison	ones	NS	3	1	rotenone	NS Note 3
	caught on longline	ones	NS	1	1	longline	longline with multiple hooks; Note 3
	in bottom dredge	ones	ASSC	2	2	bottom dredge	NS Note 3
			RBSC				
	caught by plankton net	ones	NS	2	2	plankton net	various sizes; Note 3
	Identification:	N/A	PCHR	11	1	see number	see number
			ARCS	156	5		
			LKWT	8	1		
			BDWT	3	2		
			LSCS	17	3		
			CPLN	187	3		
			RNSM	13	1		
			ARCD	134	10		
			SFCD	15	1		
			SDEP	2	2		
			NRSL	1	1		
			SFKR	188	7		
			ASSC	214	10		
			THSC	21	1		
			STSC	2	1		
			ARSC	1	1		
			RBSC	76	7		
			KPSF	25	5		
			ARAF	6	1		
			ARFL	24	5		
	Morphometrics: length, total	mm	SFCD	15	1	see number	see number
			SDEP	2	2		
			SFKR	188	7		
			ASSC	214	10		
			THSC	21	1		
			STSC	2	1		
			ARSC	1	1		
			RBSC	76	7		
			ARAF	6	1		
			KPSF	23	5		
			ARFL	24	5		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
Note 5	none; analysis on site	counted by ones	NS	NS	2	
Note 6	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	Data from McAllister (1962) not included.
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
60-0003 Cont'd	length, standard[1]	mm	PCHR	NS	NS	see number	see number
			ARCS	NS	NS		
			LSCS	NS	NS		
			CHAR	4	NS		
			CPLN	NS	NS		
			RNSM	4	NS		
			ARCD	NS	NS		
			SFCD	4	NS		
			ELPT	2	NS		
			PAEP	1	1		
			PREP	7	NS		
			TSEP	2	NS		
			SLEB	17	NS		
			STSL	3	NS		
			RHKR	27	NS		
			ASSC	158	NS		
			THSC	17	NS		
			STSC	8	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			ARAF	4	NS		
			BTSF	12	NS		
			GLSF	24	NS		
			NSSB	NS	NS		
			ARFL	NS	NS		
	length, fork	mm	PCHR	11	1	see number	see number
			ARCS	156	5		
			LKWT	8	1		
			BDWT	3	2		
			LSCS	16	3		
			CPLN	187	3		
			RNSM	13	1		
			ARCD	120	9		
			NRSL	1	1		
	weight	g	PCHR	11	1	see number	see number
			ARCS	121	3		
			BDWT	3	2		
			LSCS	10	1		
			CPLN	29	2		
			RNSM	13	1		
			ARCD	71	7		
			SFCD	14	1		
			SDEP	2	2		
			NRSL	1	1		
			SFKR	129	1		
			ASSC	26	3		
			STSC	1	1		
			ARSC	1	1		
			RBSC	3	1		
			KPSF	13	3		
			ARFL	6	3		
	# of fin rays/spines[1]	ones	ARCS	NS	NS	see number	see number
			LSCS	NS	NS		
			CHAR	4	NS		
			CPLN	NS	NS		
			RNSM	4	NS		
			ARCD	NS	NS		
			SFCD	4	NS		
			ELPT	2	NS		
			PAEP	1	1		
			PREP	7	NS		
			TSEP	2	NS		
			SLEP	17	NS		
			STSL	3	NS		
			RHKR	27	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	NS	dial calipers accurate to 0.1 mm	NS	NS	2	[1]Reported in McAllister (1962). Additional data from Arctic Biological Station computer base: ARCD (n=4) KPSF (n=2)
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	NS	counts made for dorsal, anal, pectoral, and pelvic fins; the last two rays of dorsal and anal fins counted separately only if they arose distantly; counts of dorsal and fin rays on zoarcids include 1/2 of the caudal fin rays respectively	NS	NS	3	[1]Reported in McAllister (1962).

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
60-0003	# of fin rays/spines		ASSC	158	NS		
Cont'd	cont'd		THSC	17	NS		
			STSC	8	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			BTSF	12	NS		
			GLSF	24	NS		
			ARAF	4	NS		
			NSSB	NS	NS		
			ARFL	NS	NS		
	# of gillrakers[1]	ones	ARCS	NS	NS	see number	see number
			LSCS	NS	NS		
			CHAR	4	NS		
			CPLN	NS	NS		
			RNSM	4	NS		
			ARCD	NS	NS		
			SFCD	4	NS		
			SLEB	17	NS		
			STSL	3	NS		
			RHKR	27	NS		
			ASSC	158	NS		
			THSC	17	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			BTSF	12	NS		
			GLSF	24	NS		
			ARAF	4	NS		
			NSSB	NS	NS		
			ARFL	NS	NS		
	# of pyloric caeca[1]	ones	ARCS	1	1	see number	see number
			LSCS	1	1		
			CHAR	NS	NS		
			RNSM	4	NS		
			ARCD	NS	NS		
			SFCD	1	1		
			ELPT	2	NS		
			PREP	1	1		
			PREP	7	NS		
			TSEP	2	NS		
			RHKR	27	NS		
			ASSC	158	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			ARAF	4	NS		
			BTSF	12	NS		
			GLSF	24	NS		
			ARFL	NS	NS		
	# of scales[1]	ones	PCHR	NS	NS	see number	see number
			ARCS	NS	NS		
			LSCS	NS	NS		
			CHAR	4	NS		
			RNSM	4	NS		
			STSL	3	NS		
			RHKF	27	NS		
			ASSC	158	NS		
			THSC	17	NS		
			STSC	8	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			ARFL	4	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	NS	upper and lower limb counts; all rakers including rudiments were counted	NS	NS	3	[1]Reported in McAllister (1962).
see number	NS	counted by ones	NS	NS	3	[1]Reported in McAllister (1962).
see number	NS	lateral line scales counted by ones (lateral line pores counted on cottids); counts of keel scales made on PCHR and mid-lateral counts on RNSM	NS	NS	3	[1]Reported in McAllister (1962).

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
60-0003 Cont'd	# of branchiostegals[1]	ones	CHAR	4	NS		
			RNSM	4	NS		
			ARCD	NS	NS		
			SFCD	4	NS		
			ELPT	2	NS		
			PAEP	1	1		
			PREP	7	NS		
			SLEB	17	NS		
			STSL	3	NS		
			RHKR	27	NS		
			ASSC	158	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			ARAF	4	NS		
			BTSF	12	NS		
			GLSF	24	NS		
			NSSB	NS	NS		
	# of vertebrae[1]	ones	SFCD	2	NS	see number	see number
	length of various body parts[1]		ARCS	NS	NS		
			LSCS	NS	NS		
			CHAR	4	NS		
			CPLN	NS	NS		
			RNSM	4	NS		
			ARCD	NS	NS		
			SFCD	4	NS		
			ELPT	2	NS		
			PAEP	1	1		
			PREP	7	NS		
			TSEP	2	NS		
			SLEB	17	NS		
			STSL	3	NS		
			RHKR	27	NS		
			ASSC	158	NS		
			THSC	17	NS		
			STSC	8	NS		
			FHSC	NS	NS		
			ARSC	1	1		
			RBSC	26	NS		
			ARAF	4	NS		
			BTSF	12	NS		
			GLSF	24	NS		
			NSSB	NS	NS		
			ARFL	NS	NS		
	Age:						
	# of annuli, scale	years	PCHR	11	1	see number	see number
			ARCS	154	5		
			LKWT	8	1		
			BDWT	3	2		
			LSCS	16	3		
	# of annuli, otolith	years	CPLN	15	3	see number	see number
			ARCD	115	10		
			SFCD	11	1		
			SDEP	1	1		
			NRSL	1	1		
			SFKR	57	7		
			ASSC	102	10		
			THSC	20	1		
			RBSC	73	6		
			ARAF	5	1		
			KPSF	16	5		
			ARFL	7	4		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	NS	counted by ones	NS	NS	3	[1]Reported in McAllister (1962).
see number	NS	counted by ones	NS	NS	3	[1]Reported in McAllister (1962).
see number	NS	proportions measured with needle-point calipers; measurements made on body depth (greatest vertical portion of the body), head length (to the bony edge of the operculum), and orbit	NS	NS	3	[1]Reported in McAllister (1962).
see number	Note 18	annuli counted with aid of a microscope projector	NS	NS	2	Method not given for one additional LSCS - probably aged from scale.
see number	Note 18	gadid otoliths, split to reveal annuli; salmonid otoliths used 'as is'	NS	NS	2	Method not given for 14 additional CPLN - probably aged from otoliths.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
60-0003	Reproduction:						
Cont'd	testes, presence/ absence	N/A	PCHR	7	1	see number	see number
			ARCS	88	4		
			LKWT	5	1		
			BDWT	1	1		
			LSCS	9	2		
			OPLN	26	3		
			RNSM	5	1		
			ARCD	76	9		
			SFCD	8	1		
			NRSL	1	1		
			SFKR	87	4		
			ASSC	135	8		
			THSC	11	1		
			RBSC	52	6		
			KPSF	36	4		
			ARFL	3	1		
	testes, relative developmental stage	N/A	PCHR	7	1	see number	see number
			ARCS	88	4		
			LKWT	5	1		
			BDWT	1	1		
			LSCS	8	2		
			OPLN	16	3		
			RNSM	5	1		
			ARCD	76	9		
			SFCD	8	1		
			NRSL	1	1		
			SFKR	23	4		
			ASSC	71	8		
			THSC	10	1		
			RBSC	42	6		
			KPSF	6	4		
			ARFL	3	3		
	testes, size	mm	ARCS	1	1	see number	see number
			ARFL	1	1		
	testes, weight	g	SFKR	63	1	see number	see number
	ovaries presence/ absence	N/A	PCHR	4	1	see number	see number
			ARCS	67	5		
			LKWT	3	1		
			BDWT	1	1		
			LSCS	4	2		
			OPLN	11	2		
			RNSM	8	1		
			ARCD	45	8		
			SFCD	7	1		
			SDEP	2	2		
			SFKR	90*	7		
			ASSC	74	6		
			THSC	10	1		
	ovaries, relative developmental stage	N/A	PCHR	4	1	see number	see number
			ARCS	66	5		
			LKWT	3	1		
			BDWT	1	1		
			LSCS	4	2		
			OPLN	2	2		
			RNSM	2	2		
			ARCD	44	8		
			SFCD	7	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site,or 10% formalin Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
60-0003 Cont'd	ovaries, relative developmental stage cont'd		SDEP	2	1		
			SFKR	27	7		
			ASSC	36	6		
			THSC	9	1		
			STSC	2	1		
			ARSC	1	1		
			RBSC	20	4		
			ARAF	4	1		
			KPSF	8	2		
			ARFL	4	2		
	ovaries, weight	g	BDWT	1	1	see number	see number
			SFHR	53	1		
			ASSC	1	1		
	egg diameter	mm	PCHR	1	1	see number	see number
			ARCS	41	4		
			BDWT	1	1		
			RNSM	3	1		
			SDEP	1	1		
			SFKR	42	6		
			ASSC	2	2		
			THSC	8	1		
			STSC	1	1		
			ARSC	1	1		
			RBSC	2	1		
			ARAF	2	1		
			ARFL	4	2		
	Food: gut contents, identification	N/A	PCHR	6	1	see number	see number
			ARCS	148	5		
			LSCS	12	2		
			CPLN	11	3		
			RNSM	9	1		
			ARCD	94	8		
			SFCD	13	1		
			SDEP	2	2		
			NRSL	1	1		
			SFKR	18	6		
			ASSC	91	9		
			THSC	4	1		
			STSC	1	1		
			RBSC	45	7		
			ARAF	4	1		
			KPSF	9	5		
			ARFL	6	3		
	Parasitology: presence/absence by organ	N/A	ARCS	10	3	see number	see number
			LSCS	3	1		
61-0001	Number: in gillnet	ones	PCHR	Note 20	50	gillnet	13,25,38,51,76 89,102,114,127, and 140 mm mesh sizes; Note 1
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			NRPK				
			SFCD				
			ARSC				
			ARFL				
			STFL				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
61-0001 Cont'd	in seine haul	ones	PCHR	Note 20	10	beach seine	Note 2
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			CPLN				
			RNSM				
			SFCD				
			ARFL				
	in trawl	ones	PCHR	25?	23	otter trawl	Note 5
			RNSM				
			ARCD				
			SFCD				
			ARFL				
	killed by poison	ones	ARFL	Note 20	8	rotenone	NS; Note 3
	caught on hand line	ones	NS	1	1	hand held fishing line, baited hook	NS; Note 3
	caught by hand (dipnet)	ones	NS	1	1	dipnet	NS; Note 3
	in bottom dredge	ones	NS	4	4	bottom dredge	NS; Note 3
	caught by plankton net	ones	NS	Note 20	16	plankton net	various sizes; Note 3
	Identification:	N/A	PCHR	2238	30	see number	see number
			ARCS	779	32		
			LKWT	355	24		
			BDWT	110	19		
			LSCS	496	13		
			INCO	62	4		
			CPLN	11	1		
			RNSM	574	5		
			NRPK	1	1		
			ARCD	49	1		
			STFL	147	15		
	Morphometrics:						
	length, total	mm	PCHR	6	1	see number	see number
			LKWT	3	2		
			ARSC	3	1		
			ARFL	431	20		
			STFL	147	15		
	length, fork	mm	PCHR	2229	30	see number	see number
			ARCS	778	32		
			LKWT	352	24		
			BDWT	110	19		
			LSCS	496	13		
			INCO	62	4		
			CPLN	11	1		
			RNSM	572	5		
			NRPK	1	1		
			ARCD	49	1		
			SFCD	58	9		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
see number	none; analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
61-0001 Cont'd	weight	g	PCHR	838	26	see number	see number
			ARCS	539	32		
			LKWT	348	24		
			BDWT	108	19		
			LSCS	293	13		
			INCO	62	4		
			CPLN	11	1		
			RNSM	219	4		
			NRPK	1	1		
			SFCD	54	9		
			ARSC	3	1		
			ARFL	374	19		
			STFL	135	15		
	Age:						
	# of annuli, scale	years	PCHR	1	1	see number	see number
			ARCS	21	1		
			LKWT	109	10		
			BDWT	30	9		
	# of annuli, otolith	years	ARCD	1	1	see number	see number
			ARFL	165	1		
			STFL	64	7		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	781	25	see number	see number
			ARCS	345	28		
			LKWT	171	21		
			BDWT	67	17		
			LSCS	167	12		
			INCO	14	3		
			CPLN	11	1		
			RNSM	233	4		
			ARCD	38	1		
			SFCD	33	7		
			ARSC	2	1		
			ARFL	109	13		
			STFL	56	12		
	testes, relative developmental stage	N/A	PCHR	612	24	see number	see number
			ARCS	345	28		
			LKWT	171	21		
			BDWT	67	17		
			LSCS	167	12		
			INCO	12	3		
			CPLN	11	1		
			RNSM	111	4		
			ARCD	37	1		
			SFCD	28	6		
			ARFL	74	12		
			STFL	2	1		
	testes, size	mm	PCHR	378	19	see number	see number
			ARCS	256	27		
			LKWT	164	20		
			BDWT	66	17		
			LSCS	154	12		
			INCO	12	3		
			CPLN	11	1		
			RNSM	86	3		
			ARCD	3	1		
			SFCD	11	5		
			ARFL	24	6		
			STFL	53	12		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.[illegible] g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	annuli counted with aid of microscope projector	NS	NS	2	see below
see number	Note 18	gadid otoliths split to reveal annuli; salmonid otoliths used 'as is'	NS	NS	2	In addition, 2 LKWT, 1 BDWT and 1 ARCD aged but no method given.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
61-0001 Cont'd	ovaries, presence/ absence	N/A	PCHR	787	23	see number	see number
			ARCS	206	27		
			LKWT	168	19		
			BDWT	40	14		
			LSCS	124	11		
			INCO	17	2		
			RNSM	335	4		
			NRPK	1	1		
			ARCD	10	1		
			SFCD	24	6		
			ARSC	1	1		
			ARFL	313	18		
			STFL	89	14		
	ovaries, relative developmental stage	N/A	PCHR	620	22	see number	see number
			ARCS	205	27		
			LKWT	168	19		
			BDWT	38	13		
			LSCS	124	11		
			INCO	16	2		
			RNSM	161	4		
			NRPK	1	1		
			ARCD	10	1		
			SFCD	22	5		
			ARFL	294	16		
			STFL	1	1		
	egg diameter	mm	PCHR	9	3	see number	see number
			ARCS	116	22		
			LKWT	164	16		
			BDWT	39	14		
			LSCS	57	9		
			INCO	7	1		
			RNSM	105	3		
			SFCD	1	1		
			ARSC	1	1		
			ARFL	27	5		
			STFL	1	1		
	Food: gut contents, identification	N/A	PCHR	833	25	see number	see number
			ARCS	521	32		
			LKWT	320	24		
			BDWT	96	19		
			LSCS	249	13		
			INCO	43	4		
			RNSM	217	4		
			ARCD	7	1		
			SFCD	56	9		
			ARFL	193	19		
			STFL	145	14		
	Parasitology: presence/absence by organ	N/A	PCHR	43	5	see number	see number
			ARCS	46	14		
			LKWT	102	17		
			BDWT	21	10		
			LSCS	176	10		
			INCO	23	1		
			RNSM	3	2		
			NRPK	1	1		
62-0001	Number: in gillnet	ones (#/net /24 h)	PCHR ARCS LKWT BDWT LSCS	Note 20	46	gillnet	25,38,63,89, and 114 mm mesh sizes; Note 1

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site; or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
Note 1	none; analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
62-0001 Cont'd	in gillnet cont'd		RDWT				
			RNSM				
			NRPK				
			SFCD				
			OGAC				
			SHSC				
			ARFL				
			STFL				
	in seine haul	ones	NS	4	4	beach seine	Note 2
	in trawl	ones	RNSM ARFL	6	6	otter trawl	Note 5
	killed by poison	ones	NS	1	1	rotenone	NS; Note 3
	in bottom dredge	ones	NS	2	2	bottom dredge	NS; Note 3
	caught by plankton net	ones	NS	4	4	plankton net	various sizes; Note 3
	caught by bottom grab	ones	NS	1	1	bottom grab (Ekman, Peterson, or Ponar)	NS; Note 3
	Identification:	N/A	PCHR	1043	16	see number	see number
			ARCS	2	1		
			LKWT	170	16		
			BDWT	25	9		
			LSCS	167	16		
			RDWT	12	1		
			RNSM	132	3		
			NRPK	13	11		
			SFCD	307	7		
			OGAC	72	1		
			SHSC	5	3		
			ARFL	227	12		
			STFL	11	3		
	Morphometrics: length, total	mm	SFCD	128	1	see number	see number
			SHSC	5	3		
			ARFL	227	12		
			STFL	11	3		
	length, fork	mm	PCHR	1041	16	see number	see number
			ARCS	2	1		
			LKWT	170	16		
			BDWT	25	9		
			LSCS	167	16		
			RDWT	12	1		
			RNSM	131	3		
			NRPK	13	1		
			SFCD	175	7		
			OGAC	72	1		
	weight	g	PCHR	481	14	see number	see number
			ARCS	2	1		
			LKWT	167	16		
			BDWT	23	8		
			LSCS	95	16		
			RDWT	12	1		
			RNSM	123	3		
			NRPK	13	1		
			SFCD	222	7		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	N/A	
see number	none, analysis on site; or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
62-0001 Cont'd	weight cont'd		OGAC	72	1		
			SHSC	4	3		
			ARFL	226	12		
			STFL	10	3		
	Age:						
	# of annuli, scale	years	PCHR	211	8	gillnet	see number
			LSCS	145	13		
	# of annuli, otolith	years	STFL	9	2	gillnet	see number
	Reproduction:						
	testes, presence/absence	N/A	PCHR	243	11	see number	see number
			LKWT	66	12		
			BDWT	12	6		
			LSCS	56	12		
			RDWT	5	1		
			RNSM	50	3		
			NRPK	5	1		
			SFCD	21	6		
			OGAC	45	1		
			SHSC	1	1		
			ARFL	84	8		
			STFL	3	2		
	testes, relative developmental stage	N/A	PCHR	241	12	see number	see number
			LKWT	66	12		
			BDWT	12	6		
			LSCS	55	12		
			RDWT	5	1		
			RNSM	50	3		
			NRPK	5	1		
			SFCD	21	6		
			OGAC	44	1		
			SHSC	1	1		
			ARFL	84	8		
			STFL	3	2		
	testes, size	mm	PCHR	53	2	see number	see number
			LKWT	1	1		
			BDWT	1	1		
	testes, weight	g	PCHR	3	1	see number	see number
	ovaries, presence/absence	N/A	PCHR	360	14	see number	see number
			ARCS	2	1		
			LKWT	83	14		
			BDWT	11	6		
			LSCS	73	14		
			RDWT	7	1		
			RNSM	76	2		
			NRPK	8	1		
			SFCD	139	6		
			OGAC	27	1		
			SHSC	4	2		
			ARFL	83	11		
			STFL	7	3		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	Note 18	annuli counted with aid of microscope projector	NS	NS	2	There may be unaged scale samples for LKWT, PCHR and BDWT.
see number	Note 18	gadid otoliths split to reveal annuli; salmonid, otoliths used 'as is'	NS	NS	2	In addition, 1 LSCS aged, but no method given.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
62-0001 Cont'd	ovaries, relative developmental stage	N/A	PCHR	359	14	see number	see number
			ARCS	2	1		
			LKWT	83	14		
			BDWT	11	6		
			LSCS	73	14		
			RDWT	7	1		
			RNSM	74	2		
			NRPK	8	1		
			SFCD	139	6		
			OGAC	23	1		
			SHSC	4	2		
			ARFL	83	11		
			STFL	7	3		
	egg diameter	mm	PCHR	7	4	see number	see number
			LKWT	23	6		
			BDWT	7	4		
			LSCS	30	8		
			SHSC	2	1		
	Food:						
	gut contents, identification	N/A	PCHR	359	12	see number	see number
			ARCS	2	1		
			LKWT	127	12		
			BDWT	9	4		
			LSCS	109	13		
			RDWT	3	1		
			RNSM	111	3		
			NRPK	7	1		
			SFCD	192	7		
			OGAC	57	1		
			SHSC	5	3		
			ARFL	210	12		
			STFL	10	3		
	Parasitology:						
	presence/absence, by organ	N/A	PCHR	18	4	see number	see number
			LKWT	32	12		
			BDWT	2	2		
			LSCS	126	15		
			RNSM	13	1		
			NRPK	7	1		
			SFCD	160	5		
			OGAC	38	1		
			ARFL	6	6		
63-0001	Number:						
	in gillnet	ones (#/net /24 h)	ARCS SFCD OGAC ASSC SHSC	Note 20	9	gillnet	38,51,63,89, and 114 mm mesh sizes; Note 1
	in seine haul	ones	SFCD OGAC	Note 20	2	beach seine	Note 2
	in trawl	ones	NS	357	32	otter trawl	Note 5
	in trawl	ones	NS	Note 20	3	stramin trawl	Note 6
	killed by poison	ones	NS	1	1	rotenone	NS; Note 3
	caught on longline	ones	NS	2	2	longline with multiple hooks	NS; Note 3

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
Note 1	none; analysis on site	counted by ones	NS	NS	2	
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
Note 6	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none, analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
63-0001 Cont'd	caught by jig	ones	NS	Note 20	2	hook and line for snagging fish	NS; Note 3
	caught by plankton net	ones	NS	1	1	plankton net	various sizes; Note 3
	caught by plankton net	ones	NS	1	1	Hansen plankton net	NS; Note 3
	Identification:	N/A	ARCS	562	5	see number	see number
			SFCD	4	1		
			OGAC	708	4		
			ASSC	4	1		
			SHSC	109	4		
	Morphometrics:						
	length, total	mm	ASSC	4	1	see number	see number
			SHSC	109	4		
	length, fork	mm	ARCS	561	5	see number	see number
			SFCD	4	1		
			OGAC	707	4		
	weight	g	ARCS	552	5	see number	see number
			SFCD	4	1		
			OGAC	665	4		
			ASSC	4	1		
			SHSC	53	3		
	Age:						
	# of annuli, scale[1]					see number	see number
	# of annuli, otolith[1]					see number	see number
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	131	4	see number	see number
			SFCD	2	1		
			OGAC	283	4		
			ASSC	1	1		
			SHSC	53	4		
	testes, relative developmental stage	N/A	ARCS	130	4	see number	see number
			SFCD	2	1		
			OGAC	281	4		
			SHSC	53	4		
	testes, size	mm	ARCS	126	4	see number	see number
			ASSC	1	1		
			SHSC	50	4		
	testes, weight	g	ARCS	4	3	see number	see number
			SFCD	2	1		
			OGAC	276	4		
			SHSC	28	4		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	N/A	N/A	N/A	N/A	[1]Unaged samples exit for ARCS.
see number	Note 18	N/A	N/A	N/A	N/A	[1]Unaged samples exist for ARCS, SFCD, OGAC, ASSC, and SHSC.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
63-0001 Cont'd	ovaries, presence/ absence	N/A	ARCS	158	5	see number	see number
			SFCD	2	1		
			OGAC	419	4		
			ASSC	3	1		
			SHSC	53	4		
	ovaries, relative developmental stage	N/A	ARCS	157	5	see number	see number
			SFCD	2	1		
			OGAC	419	4		
			ASSC	3	1		
			SHSC	53	4		
	ovaries, weight	g	ARCS	38	5	see number	see number
			SFCD	2	1		
			OGAC	409	4		
			ASSC	3	1		
			SHSC	38	4		
	egg diameter	mm	ARCS	35	4	see number	see number
			ASSC	2	1		
			SHSC	31	3		
	Food:						
	gut contents, identification	N/A	ARCS	268	4	see number	see number
			SFCD	2	1		
			OGAC	627	4		
			ASSC	4	1		
			SHSC	92	4		
	Parasitology:						
	presence/absence, by organ	N/A	ARCS	47	5	see number	see number
			SFCD	4	1		
			OGAC	647	4		
			ASSC	3	1		
			SHSC	23	3		
64-0001	Number:						
	in gillnet	ones (#/net /24 h)	SFCD OGAC ARSC SHSC	12?	3	gillnet	38,63,89, and 114 mm mesh sizes; Note 1
	caught on rod and line	ones	NS	1	1	rod and line	NS; Note 3
	caught by jig[1]	ones	NS	7?	3	jig	hook and line for snagging fish; Note 3
	caught by plankton net	ones	NS	1	1	plankton net	various sizes; Note 3
	Identification:	N/A	SFCD	12	1	see number	see number
			OGAC	170	1		
			ARSC	1	1		
			SHSC	6	1		
	Morphometrics:						
	length, total	mm	ARSC	1	1	see number	see number
			SHSC	6	1		
	length, fork	mm	SFCD	12	1	see number	see number
			OGAC	170	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
NS	none; analysis on site	counted by ones	NS	NS	2	[1]Includes sample(s) at one station collected with hand held line with baited hook.
NS	10% formalin	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	Note 4	NS	NS	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
64-0001 Cont'd	weight	g	SFCD	10	1	see number	see number
			OGAC	114	1		
			ARSC	1	1		
			SHSC	6	1		
	Age:						
	# of annuli, scale	years	OGAC	38	1	see number	see number
	# of annuli, otolith	years	OGAC	68	1	see number	see number
	Reproduction:						
	testes, presence/ absence	N/A	SFCD	3	1	see number	see number
			OGAC	39	1		
			ARSC	1	1		
			SHSC	2	1		
	testes, relative developmental stage	N/A	SFCD	3	1	see number	see number
			OGAC	39	1		
			ARSC	1	1		
			SHSC	2	1		
	testes, size	mm	ARSC	1	1	see number	see number
			SHSC	2	1		
	testes, weight	g	SFCD	3	1	see number	see number
			OGAC	38	1		
			ARSC	1	1		
			SHSC	2	1		
	ovaries, presence/ absence	N/A	SFCD	4	1	see number	see number
			OGAC	60	1		
			SHSC	4	1		
	ovaries, relative developmental stage	N/A	SFCD	4	1	see number	see number
			OGAC	60	1		
			SHSC	4	1		
	ovaries, weight	g	SFCD	4	1	see number	see number
			OGAC	59	1		
			SHSC	4	1		
	egg diameter	mm	SHSC	3	1	see number	see number
	Food:						
	gut contents, identification	N/A	SFCD	7	1	see number	see number
			OGAC	97	1		
			ARSC	1	1		
			SHSC	6	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	annuli counted with aid of a microscope projector	NS	NS	2	
see number	Note 18	gadid otoliths split to reveal annuli	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
64-0001 Cont'd	Parasitology: presence/absence, by organ	N/A	SFCD OGAC SHSC	6 95 1	1 1 1	see number	see number
69-0065	Number: in gillnet	ones	NS	NS	1	gillnet	Note 1
	Identification:	N/A	NS	NS	1	gillnet	see number
70-0014	Number: in trawl	ones	ARCD ARFL	1	1	otter trawl	Note 5
	Identification:	N/A	ARCD ARFL	20 1	1 1	otter trawl	see number
	Morphometrics: length, total	mm	ARFL	1	1	otter trawl	see number
	length, fork	mm	ARCD	20	1	otter trawl	see number
	weight	g	ARCD ARFL	20 1	1 1	otter trawl	see number
	Age[1]: # of annuli	years	ARCD	4	1	otter trawl	see number
	Reproduction: testes, presence/absence	N/A	ARCD	2	1	otter trawl	see number
	testes, relative developmental stage	N/A	ARCD	2	1	otter trawl	see number
	testes, weight	g	ARCD	2	1	otter trawl	see number
	ovaries, presence/absence	N/A	ARCD	14	1	otter trawl	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	Data not on Arctic Biological Station fish data base.
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	NS	NS	NS	2	[1]No method given.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
70-0014 Cont'd	ovaries, relative developmental stage	N/A	ARCD	14	1	otter trawl	see number
	ovaries, weight	g	ARCD	9	1	otter trawl	see number
70-0067	# in plankton net	ones	FHSC	98	NS	plankton net	0.66 m diameter conical net; 3.05 m long; 30 Grit Gauze mesh size (0.75 mm mesh size)
	# in plankton net	ones	FHSC	36	NS	Miller sampler	conical net, 0.91 m long; 202 Nitex mesh size (0.2 mm mesh size)
	Identification:	N/A	FHSC	88	18?	see number	see number
	Morphometrics:						
	length, standard	mm	FHSC	88	18?	see number	see number
	length, total	mm	FHSC	88	18?	see number	see number
	# of fin rays	ones	FHSC	49-55	NS	see number	see number
	# of myomeres	ones	FHSC	60	NS	see number	see number
	length of various body parts	mm	FHSC	61	NS	see number	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
horizontal tows; tow duration: 5 min.; tow velocity: 1.5 -2.0 knots	NS	counted by ones	NS	NS	2	Data on other species was not available.
tow duration: 10 min. tow velocity: 5 knots	NS	counted by ones	NS	NS	2	Data on other species not available.
see number	NS	detailed examination of descriptive, morphometric, and meristic characteristics; sources: Johansen (1912) and Zviagina (1963)	N/A	N/A	N/A	Data on other species not available.
see number	NS	length, from end of snout to tip of urostyle, measured with aid of vernier microscope to nearest 0.01 mm	NS	NS	2	
see number	NS	length from end of snout to end of caudal fin, measured with aid of vernier microscope to nearest 0.01 mm	NS	NS	2	
see number	NS	counts made for second dorsal fin (n=49), anal fin (n=50), pectoral fin (n=55), and caudal fin (n=53)	NS	NS	3	
see number	NS	total number of myomeres counted	NS	NS	3	
see number	NS	measurements made with aid of vernier microscope to nearest 0.01 mm for: head length, diameter of orbit, interorbital width, preanal length, and body depth	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
70-0067 Cont'd	Other: descriptive characteristics	N/A	FHSC	88	18?	see number	see number
71-0001	Number: in gillnet	ones (#/ net/ 24 h)	PCHR ARCS LKWT BDWT LSCS RNSM SFCD ASSC ARFL	7?	6	gillnet	51,63,89,114, and 140 mm mesh sizes; Note 1
	in seine haul	ones	NS	1	1	beach seine	Note 2
	in trawl	ones	PCHR BDWT LSCS RNSM ARCD SFCD ELPT PREP NRSL ASSC RBSC ARFL	76	38	otter trawl	Note 5
	in bottom dredge	ones	NS	2	2	bottom dredge	NS
	caught by bottom grab	ones	NS	13	12	bottom grab (Ekman, Peterson, or Ponar grabs)	NS
	Identification:	N/A	PCHR	32	5	see number	see number
			ARCS	37	5		
			LKWT	38	6		
			BDWT	19	6		
			LSCS	23	6		
			RNSM	243	14		
			ARCD	136	7		
			SFCD	752	12		
			ELPT	5	1		
			PREP	13	5		
			NRSL	275	5		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	NS	finfold, yolk sac and/or intestine, caudal fin and notochord, pelvic fin, pectoral fin, general and specific pigmentation pattern, cephalic spines examined in order to describe typical morphology and transition of characteristic during larval development; all characters, except pigmentation examined after staining with Alizarin red S (Evans 1948)	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, anallysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	N/A	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
71-0001 Cont'd	Identification cont'd		ASSC	623	21		
			RBSC	35	8		
			ARFL	1786	19		
	Morphometrics:						
	length, total	mm	ELPT	5	1	see number	see number
			PREP	13	5		
			ASSC	623	22		
			RBSC	35	8		
			ARFL	1785	19		
	length, fork	mm	PCHR	32	5	see number	see number
			ARCS	37	5		
			LKWT	38	5		
			BDWT	19	6		
			LSCS	23	6		
			RNSM	243	14		
			ARCD	136	7		
			SFCD	752	12		
			NRSL	275	5		
	weight	g	RNSM	194	10	see number	see number
			ARCD	136	7		
			SFCD	273	5		
			ELPT	5	1		
			NRSL	200	5		
			ASSC	197	8		
			RBSC	29	7		
			ARFL	242	10		
	Age:						
	# of annuli, scale	years	BDWT	3	2	see number	see number
			NRSL	1	1		
	# of annuli, otolith	years	BDWT	1	1	see number	see number
			ARCD	1	1		
			NRSL	6	1		
			ARFL	26	1		
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	17	3	see number	see number
			LKWT	21	5		
			BDWT	7	2		
			LSCS	11	4		
			RNSM	65	9		
			ARCD	38	6		
			SFCD	230	8		
			ELPT	2	1		
			NRSL	112	5		
			ASSC	281	15		
			RBSC	14	7		
			ARFL	423	11		
	testes, relative developmental stage	N/A	ARCS	14	3	see number	see number
			LKWT	21	5		
			BDWT	7	2		
			LSCS	9	4		
			RNSM	65	9		
			ARCD	38	6		
			SFCD	119	5		
			ELPT	2	1		
			NRSL	111	5		
			ASSC	104	8		
			RBSC	11	6		
			ARFL	138	7		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	annuli counted with aid of microscope projector	NS	NS	2	Some unsampled scales exist for BDWT.
see number	Note 18	gadid otoliths split to reveal annuli; salmonid otoliths used 'as is'	NS	NS	2	Some unsampled otoliths exist for BDWT, ARCD, SFCD, and ARFL. In addition, 3 RNSM, 73 NRSL, 19 ASSC, and 325 ARFL aged, but method not given.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
71-0001 Cont'd	testes, size	mm	ARCS	17	3	see number	see number
			LKWT	19	4		
			BDWT	7	2		
			LSCS	11	4		
			RNSM	3	2		
			SFCD	37	3		
			NRSL	2	2		
			ASSC	2	2		
			ARFL	42	2		
	testes, weight	g	ARCS	7	1	see number	see number
			LSCS	1	1		
			RNSM	62	9		
			ARCD	38	6		
			SFCD	107	4		
			ELPT	2	1		
			NRSL	112	5		
			ASSC	103	8		
			RBSC	14	7		
			ARFL	104	3		
	ovaries, presence/ absence	N/A	PCHR	1	1	see number	see number
			ARCS	20	5		
			LKWT	15	4		
			BDWT	10	6		
			LSCS	11	5		
			RNSM	37	8		
			ARCD	70	6		
			SFCD	214	8		
			ELPT	2	1		
			NRSL	73	5		
			ASSC	245	18		
			RBSC	12	4		
			ARFL	358	14		
	ovaries, relative developmental stage	N/A	ARCS	16	5	see number	see number
			LKWT	15	4		
			BDWT	10	6		
			LSCS	11	5		
			RNSM	37	8		
			ARCD	70	6		
			SFCD	112	4		
			ELPT	2	1		
			NRSL	73	5		
			ASSC	78	7		
			RBSC	12	4		
			ARFL	203	6		
	ovaries, weight	g	ARCS	2	1	see number	see number
			RNSM	36	8		
			ARCD	68	6		
			SFCD	110	4		
			ELPT	2	1		
			NRSL	73	5		
			ASSC	78	7		
			RBSC	12	4		
			ARFL	69	4		
	egg diameter	mm	PCHR	1	1	see number	see number
			ARCS	20	5		
			LKWT	13	4		
			BDWT	9	5		
			LSCS	11	5		
			RNSM	6	5		
			SFCD	9	3		
			ELPT	2	1		
			NRSL	33	5		
			ASSC	50	7		
			RBSC	11	4		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovery with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement		Species	No. of Samples	No. of Stations	Gear Type	Gear Description
	Parameter	Units					
71-0001 Cont'd	Food: gut contents, identification	N/A	PCHR	1	1	see number	see number
			ARCS	35	5		
			LKWT	36	6		
			BDWT	17	6		
			LSCS	22	5		
			RNSM	1	1		
			ASSC	1	1		
			ARFL	53	5		
	Parasitology: presence/absence, by organ	N/A	ARCS	21	3	see number	see number
			LKWT	9	5		
			BDWT	4	2		
			LSCS	11	4		
72-0007	Number: in gillnet	ones	PCHR	15	12	gillnet	15.2x2.4 m; four 15.1 panels of 13, 38, 76 and 140 mm mesh sizes respectively
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			FHSC				
			ARFL				
	in gillnet	ones	ARCS	12	12	gillnet	a) four panels of 25,51, and 102 mm mesh sizes respectively b) three panels of 38,76, and 140 mm mesh sizes respectively
			LKWT				
			BDWT				
			LSCS				
			INCO				
			LKTR				
			RNSM				
			NRPK				
			LNSK				
			SFCD				
			BRBT				
			FHSC				
			OTHER[1]				
	in seine haul	ones	ARCS	11	8	beach seine	30.5x2.4 m; 13 mm mesh size
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			FHSC				
			NSSB				
			ARFL				
			OTHER[1]				
	in trawl	ones	LAMP	9	9	beam trawl	8.2 m with 0.64 mm mesh at cod end
			ARCS				
			LSCS				
			RNSM				
			BRBT				
			FHSC				
	Identification:	N/A	LAMP	1	1	see number	see number
			PCHR	2	2		
			ARCS	104	17		
			LKWT	13	7		
			BDWT	10	8		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
depth: 1.2-2.8 m; duration: 10-40 h; offshore sets.	large specimens: none, analysis on site; small specimens: 10% formalin	counted by ones	NS	NS	2	
duration: 14-27 h; nearshore sets	large specimens: none, analysis on site; small specimens: 10% formalin	counted by ones	NS	NS	2	[1]Pleuronectids
depth: 0.9-3.1 m; 1-4 hauls/station/period; set off nearest beach to the offshore gillnetting stations utilizing a zodiac	large specimens: none, analysis on site; small specimens: 10% formalin	counted by ones	NS	NS	2	[1]*Cottus ricei*, *Coregonus* sp., and *Liparis* sp. Larval fishes also captured.
velocity: 1-3 knots	large specimens: none, analysis on site; small specimens: 10% formalin	counted by ones	NS	NS	2	Judged relatively inefficient in sampling larger pelagic species. Unknown number of larval fishes also captured.
see number	large specimens: none, analysis on site; small specimens: 10% formalin	McPhail and Lindsey (1970)?	N/A	N/A	N/A	Approximately 50 additional LSCS relesed during tagging. [1]*Coregonus* sp. (n=2),

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
72-0007 Cont'd	Identification cont'd		LSCS	301?	20		
			INCO	137	12		
			LKTR	1	1		
			RNSM	171	22		
			NRPK	1	1		
			LNSK	2	1		
			SFCD	29	12		
			BRBT	25	8		
			FHSC	417	18		
			NSSB	3	1		
			ARFL	13	2		
			OTHER^1				
	Morphometrics: length, total	mm	LAMP	1	1	see number	see number
			BRBT	25	8		
			FHSC	304	12		
			NSSB	3	1		
			ARFL	13	2		
			OTHER^1				
	length, fork	mm	PCHR	2	2	see number	see number
			ARCS	103	16		
			LKWT	13	7		
			BDWT	9	7		
			LSCS	221?	18		
			INCO	66	9		
			LKTR	1	1		
			SFCD	24	10		
			OTHER^1	2	1		
	weight	NS	ARCS	29	NS	see number	see number
			LSCS	46	NS		
			INCO	63	NS		
			RNSM	18	NS		
	Age: # of annuli, scale	years	ARCS	29	NS	see number	see number
			LSCS	46	NS		
			INCO	63	NS		
			RNSM	18	NS		
	# of annuli, otolith	years	SFCD	NS	NS	see number	see number
			BRBT	NS	NS		
			FHSC	NS	NS		
	Reproduction: testes, presence/ absence	N/A	ARCS	11	NS	see number	see number
			LSCS	13	NS		
			INCO	25	NS		
			RNSM	10	NS		
	testes, relative developmental stage	N/A	ARCS	11	NS	see number	see number
			LSCS	13	NS		
			INCO	25	NS		
			RNSM	10	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
						Cottus ricei (n=2), *Liparis* sp. (n=1), and *pleuronectids* (n=45).
see number	large specimens: none, analysis on site; small specimens: 10% formalin	NS	NS	NS	2	Referred to as fork length in report. [1]*Cottus ricei* (n=2), *Liparis* sp. (n=1) and pleuronectids (n=36).
see number	large specimens: none, analysis on site; small specimens: 10% formalin	NS	NS	NS	2	[1]*Coregonus* sp.
see number	large specimen: none, analysis on site; small specimens: 10% formalin	NS	NS	NS	2	Report states that most specimens were weighed. Sample sizes are from those specimens examined for age.
see number	NS	Ageing performed by Mr. H. Metheringham of Manitoba Department of Mines, Resources, and Environmental Management	NS	NS	2	
see number	NS	NS	NS	NS	2	Aged, but data not included in report because of small sample sizes.
see number	large specimens: none, analysis on site; small specimens: 10% formalin	NS	N/A	N/A	N/A	Sample sizes are from those specimens examined for age.
see number	large specimens: none, analysis on site; small specimens: 10% formalin	gonads categorized as mature or immature/unknown	NS	NS	2	Sample sizes are from those specimens examined for age. The number in each category is given, but sex is not. Thus, the number of males classified as "mature" cannot be determined.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
72-0007 Cont'd	ovaries, presence/ absence	N/A	ARCS	10	NS	see number	see number
			LSCS	20	NS		
			INCO	37	NS		
			RNSM	10	NS		
	ovaries, relative developmental stage	N/A	ARCS	10	NS	see number	see number
			LSCS	20	NS		
			INCO	37	NS		
			RNSM	10	NS		
	Food:						
	gut contents, identification	N/A	ARCS	16	NS	see number	see number
			LKWT	1	1		
			LSCS	31	NS		
			INCO	8	NS		
			LKTR	34	NS		
			RNSM	34	NS		
			SFCD	17	NS		
			BRBT	20	NS		
			FHSC	40	NS		
			ARFL	4	NS		
	Movements:						
	# of fish tagged	ones	LSCS	34	1	beach seine	see number
72-0012	Number:						
	in gillnet	ones	PCHR	12?	5?	monofilament nylon gillnet	panels of 15.24 x2.4 m; a number of mesh sizes utilized sometimes selectively: 13,19,25,38,51, 63,76,89,102 and 114 mm mesh sizes (stretched mesh measure); set in gangs of up to 6 nets
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			CHAR				
			ARGR				
			RNSM				
			FHSC				
			ARFL				
	Identification:	N/A	PCHR	1	1	monofilament nylon gillnet	see number
			ARCS	146	NS		
			LKWT	3	NS		
			BDWT	1	1		
			LSCS	140	NS		
			INCO	2	NS		
			CHAR	34	NS		
			ARGR	NS	NS		
			RNSM	40	NS		
			FHSC	243+	NS		
			ARFL	173+	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	large specimens: none, analysis on site; small specimens: 10% formalin	NS	N/A	N/A	N/A	Sample sizes are from those specimens examined for age.
see number	large specimens: none, analysis on site; small specimens: 10% formalin	gonads categorized as mature or immature/unknown	NS	NS	2	Sample sizes are from those specimens examined for age. The number in each category is given, but sex is not. Thus, the number of females classified as "mature" cannot be determined.
see number	large specimens: none, analysis on site; small specimens: 10% formalin	identified to taxonomic order	N/A	N/A	N/A	
see number	none; analysis on site	Floy tag inserted with Dennison tagging gun. Tag inserted in musculature beneath dorsal fin	N/A	N/A	N/A	
duration: 6-53 h.	none, analysis on site; sometimes samples which could not be examined immediately were frozen	counted by ones (except possibly FHSC, ARFL)	NS	NS	2	
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	McPhail and Lindsey (1970)?	N/A	N/A	N/A	Mann (1974) gives zero ARCD captured; Craig and Mann (1974) give 1. Mann (1974) lists ARGR as being captured; Craig and Mann (1974) do not. Sample sizes for species other than ARCS and LSCS are from Craig and Mann (1974). However, this report lists station catches only when ARCS were captured.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
72-0012 Cont'd	Morphometrics: length, fork	mm	ARCS LSCS	146 168	NS NS	monofilament nylon gillnet	see number
	weight	g	ARCS LSCS	146 70	NS NS	monofilament nylon gillnet	see number
	# of gillrakers	ones	ARCS LSCS	47 30	NS NS	monofilament nylon gillnet	see number
	# of pyloric caeca	ones	ARCS LSCS	43 22	NS NS	monofilament nylon gillnet	see number
	# of lateral line scales	ones	ARCS LSCS	62 18	NS NS	monofilament nylon gillnet	see number
	Age: # of annuli, scale	years	ARCS LSCS	131 168	NS NS	monofilament nylon gillnet	see number
	# of annuli, otolith	years	ARCS LSCS	131 168	NS NS	monofilament nylon gillnet	see number
	Reproduction: testes, presence/ absence	N/A	ARCS LSCS	100 91	NS NS	monofilament nylon gillnet	see number
	testes, relative developmental stage	N/A	ARCS LSCS	100 91	NS NS	monofilament nylon gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rat[illegible]	Remarks
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	measuring board	NS	NS	2	Sample sizes of LSCS for this and all following parameters are for samples collected in 1972 and 1973.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	to nearest 0.1 g; triple beam balance	NS	NS	2	Sample sizes from weight-length relationships.
see number	10% formalin	counts made on first arch on left side; method of Hubbs and Lagler (1958) and Lindsey (1961)	NS	NS	3	
see number	10% formalin	Method of Hubbs and Lagler (1958) and Lindsey (1961)	NS	NS	3	
see number	none; analysis on site; sometimes samples which could not be examined immediately were frozen	method of Hubbs and Lagler (1958) and Lindsey (1961)	NS	NS	3	
see number	scales pressed between 2 slides which were then taped together	binocular dissecting scope; 40x magnification; scales/otoliths aged independently twice. A third reading was performed in cases of discrepancy	NS	NS	1	
see number	glycerol in 1-dram vials	binocular dissecting scope; 40x magnification; scales/otoliths aged independently twice. A third reading was performed in cases of discrepancy	NS	NS	4	
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	NS	N/A	N/A	N/A	
see number	none, analysis on site; sometimes samples which could not	mature gonads classified as green (G), ripe (R), or will not	NS	NS	2	Decision as to whether a fish was immature or mature based on gonad weight and gonad width.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
72-0012 Cont'd	testes, relative developmental stage cont'd						
	ovaries, presence/ absence	N/A	ARCS LSCS	49 77	NS NS	monofilament nylon gillnet	see number
	ovaries, relative developmental stage	N/A	ARCS LSCS	49 77	NS NS	monofilament nylon gillnet	see number
	ovaries, weight	g	LSCS	1	1	monofilament nylon gillnet	see number
	egg diameter	mm	ARCS LSCS	2 12	NS NS	monofilament nylon gillnet	see number
	egg number	ones	ARCS LSCS	5? 1	NS 1	monofilament nylon gillnet	see number
	Food:						
	gut contents, identification	N/A	ARCS LSCS	75 155	NS NS	monofilament nylon gillnet	see number
	Parasitology:						
	presence/absence, by organ	N/A	ARCS LSCS	NS NS	NS NS	monfilament nylon gillnet	see number
	numbers, by organ	ones	LSCS	NS	NS	monofilament nylon gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
	be examined immediately were frozen	spawn (WS); method of McCart et al. (1972); Note 11				
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	NS	N/A	N/A	N/A	
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	mature gonads classified as green (G), ripe (R), or will not spawn (WS); method of McCart et al. (1972); Note 11	NS	NS	2	Decision as to whether a fish was immature or mature based on gonad weight, gonad width, and egg diameter.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	to nearest 0.1 g with triple beam balance; for weights <1.0 g, to nearest 0.01 g with torsion balance	NS	NS	2	Total ovarian weight and weights of subsamples determined. Utilized for determining fecundity.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	measured with calipers, to nearest 0.1 mm; 10 eggs lined up in a row and an average diameter for one egg calculated	NS	NS	2	
see number	preserved, method not specified	counts conducted only on mature, green gonads; counts made on a subsample and total fecundity determined by simple proportion; total ovary weight and weights of subsamples determined during field dissection, with the latter preserved for later counting	NS	NS	2	Accuracy of technique checked by direct count of total numbers after subsampling method had been employed (n=5 - all LSCS from freshwater).
see number	10% formalin	identified to taxonomic class or order	N/A	N/A	N/A	
see number	NS		N/A	N/A	N/A	
see number	NS	counted by ones	NS	NS	2	

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
72-0012 Cont'd	Identification:	N/A	ARCS	NS	NS	monofilament nylon gillnet	see number
72-0112	Number:						
	in gillnet	ones	PCHR	3	1	gillnet	Note 1
	in trawl	ones	RNSM ARCD SFCD NRSL ASSC BESC RBSC ARFL STFL	14	4	otter trawl	Note 5
	Identification:	N/A	PCHR	204	1	see number	see number
			RNSM	12	4		
			ARCD	126	3		
			SFCD	18	3		
			NRSL	13	1		
			ASSC	1404	4		
			BESC	1	1		
			RBSC	21	3		
			ARFL	19	1		
			STFL	1	1		
	Morphometrics:						
	length, total	mm	ASSC	1404	4	see number	see number
			BESC	1	1		
			RBSC	21	3		
			ARFL	19	1		
			STFL	1	1		
	length, fork	mm	PCHR	203	1	see number	see number
			RNSM	12	4		
			ARCD	126	3		
			SFCD	18	3		
			NRSL	13	1		
	weight	g	PCHR	203	1	see number	see number
			RNSM	4	2		
			ARCD	70	3		
			SFCD	14	2		
			NRSL	13	1		
			ASSC	853	2		
			RBSC	11	2		
			ARFL	16	1		
	Age[1]:	years	PCHR	196	1	see number	see number
			RNSM	7	2		
			SFCD	4	2		
			NRSL	11	1		
			ASSC	298	3		
			BESC	1	1		
			RBSC	10	2		
			ARFL	9	1		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	130	1	see number	see number
			RNSM	9	4		
			ARCD	20	3		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	NS	Identified by G. Couture; verified by Dr. W.M. Samual, Department Zoology, University Alberta	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	scales: annuli counted with aid of a microscope projector; otoliths: gadid otoliths split to reveal annuli, salmonid otoliths used 'as is'	NS	NS	2	[1]Structures utilized for ageing not given.
see number	none, analysis on site, or 10% formalin;	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
72-0112 Cont'd	testes, presence/ absence cont'd		SFCD	12	3		
			NRSL	5	1		
			ASSC	537	3		
			RBSC	11	3		
			ARFL	5	1		
	testes, relative developmental stage	N/A	PCHR	14	1	see number	see number
			ARCD	14	2		
			SFCD	10	2		
			NRSL	5	1		
			ASSC	65	2		
			RBSC	4	1		
			ARFL	1	1		
	testes, size	mm	PCHR	47	1	see number	see number
			ARCD	7	2		
			NRSL	4	1		
			ASSC	56	2		
			RBSC	4	1		
			ARFL	4	1		
	testes, weight	g	PCHR	8	1	see number	see number
			SFCD	9	2		
			ASSC	1	1		
	ovaries, presence/ absence	N/A	PCHR	73	1	see number	see number
			RNSM	2	2		
			ARCD	39	3		
			SFCD	6	3		
			NRSL	8	1		
			ASSC	458	3		
			BESC	1	1		
			RBSC	10	3		
			ARFL	12	1		
	ovaries, relative developmental stage	N/A	PCHR	1	1	see number	see number
			ARCD	19	3		
			SFCD	4	2		
			NRSL	5	1		
			ASSC	74	2		
			RBSC	3	2		
			ARFL	8	1		
	ovaries, weight	g	PCHR	6	1	see number	see number
			SFCD	4	2		
			ASSC	30	2		
			RBSC	1	1		
			ARFL	8	1		
	egg diameter	mm	PCHR	25	1	see number	see number
			ARCD	7	2		
			SFCD	1	1		
			NRSL	4	1		
			ASSC	40	2		
			RBSC	4	2		
			ARFL	4	1		
	Food:						
	gut contents, identification	N/A	SFCD	4	2	otter trawl	see number
			ASSC	12	1		
			ARFL	5	1		
	Parasitology:						
	presence/absence, by organ	N/A	SFCD	2	1	otter trawl	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
	Note 17					
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0016	Number:						
	in gillnet	ones	PCHR	6	3[2]	gillnet	five-15 m panels of 25, 51,75,102 and 127 mm mesh sizes respectively
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			FHSC				
			STFL				
			OTHER[1]				
	in seine haul	ones	LKWT	8	3[2]	beach seine	NS
			BDWT				
			LSCS				
			NRPK				
			BRBT				
			FHSC				
			STFL				
			OTHER[1]				
	in trawl	ones	ARCS	4	3	beam trawl	NS
	Identification:	N/A	PCHR	54	3	see number	see number
			ARCS	3	2		
			LKWT	116	3		
			BDWT	141	3		
			LSCS	168	3		
			INCO	9	2		
			RNSM	45	3		
			NRPK	1	1		
			SFCD	1	1		
			BRBT	3	2		
			FHSC	94	3		
			STFL	16	3		
			OTHER[1]	155	3		
	Reproduction[1]:					see number	see number
	Food:						
	gut contents, identification	N/A	PCHR	NS	NS	gillnet	see number
			ARCS	NS	NS		
			LKWT	NS	NS		
			BDWT	NS	NS		
			LSCS	NS	NS		
			INCO	NS	NS		
			RNSM	NS	NS		
			SFCD	NS	NS		
			FHSC	NS	NS		
			STFL	NS	NS		
73-0023	Number:						
	in gillnet	ones (#/h)	ARCS	8?	4?	monofilament nylon gillnet	panels of 15.24 x2.4 m; a number of mesh sizes utilized sometimes selectively: 13,19,25,38,51,
			LKWT				
			LSCS				
			INCO				
			CHAR				
			ARCD				
			FHSC				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
set in pairs; duration: 12 or 24 h	none, analysis on site	counted by ones	NS	NS	2	[1]OTHER - stichaeids and pleuronectids. [2]Three areas were sampled with two adjacent samples performed at each area.
NS	none, analysis on site	counted by ones	NS	NS	2	[1]OTHER - pleuronectid and larval fishes. [2]Three areas were sampled with 2-3 nearby sites sampled.
depth: just below surface; velocity: low	none, analysis on site	NS	NS	NS	2	
see number	none; analysis on site	NS	N/A	N/A	N/A	[1]OTHER - pleuronectids (n=4) stichaeids (n=4), and larval fishes (n=147).
see number					N/A	[1]PCHR, RNSM, ARCS, and LSCS are said to have been approaching a spawning condition. No other data.
see number	NS	identified to various categories: pelecypods, gastropods, isopods, crustacean plankton, insect pupae, fish, and plant material	N/A	N/A	N/A	Sample sizes for individual species could not be determined. Total of 232 stomachs examined.
depth: 2-3.5 m; duration: 12-28 h	none, analysis on site; sometimes samples which could not be examined immediately were frozen	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0023 Cont'd	In gillnet cont'd						63,76,89,102 and 114 mm mesh sizes (stretched mesh measure); set in gangs of up to 6 nets
	Identification:	N/A	ARCS	NS	NS	monofilament nylon gillnet	see number
			LKWT	NS	NS		
			LSCS	30	2		
			INCO	NS	NS		
			CHAR	NS	NS		
			ARCD	NS	NS		
			FHSC	NS	NS		
	Morphometrics: length, fork	mm	LSCS	168	NS	monofilament nylon gillnet	see number
	weight	g	LSCS	70	NS	monofilament nylon gillnet	see number
	# of gillrakers	ones	LSCS	30	NS	monofilament nylon gillnet	see number
	# of pyloric caeca	ones	LSCS	22	NS	monofilament nylon gillnet	see number
	# of lateral line scales	ones	LSCS	18	NS	monofilament nylon gillnet	see number
	Age: # of annuli, scales	years	LSCS	168	NS	monofilament nylon gillnet	see number
	# of annuli, otolith	years	LSCS	168	NS	monofilament nylon gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	McPhail and Lindsey (1970)?	N/A	N/A	N/A	Sample sizes for species other than LSCS could not be determined.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	measuring board	NS	NS	2	Sample sizes of LSCS for this and all following parameters are for samples collected in 1972 and 1973.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen.	to nearest 0.1 g; triple beam balance	NS	NS	2	Sample size from weight-length relationships.
see number	10% formalin	counts made on first arch on left side; method of Hubbs and Lagler (1958) and Lindsey (1961)	NS	NS	3	
see number	10% formalin	method of Hubbs and Lagler (1958) and Lindsey (1961)	NS	NS	3	
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	method of Hubbs and Lagler (1958) and Lindsey (1961)	NS	NS	3	
see number	scales pressed between 2 slides which were then taped together	binocular dissecting scope; 40x magnification; scales/otoliths aged independently twice. A third reading was performed in cases of discrepancy	NS	NS	1	Otolith ages used exclusively in all computations in report because of greater confidence in accuracy.
see number	glycerol in 1-dram vials	binocular dissecting scope; 40x magnification: scales/otoliths aged independently twice. A third reading was performed in cases of discrepancy	NS	NS	4	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0023 Cont'd	Reproduction: testes, presence/absence	N/A	LSCS	91	NS	monofilament nylon gillnet	see number
	testes, relative developmental stage	N/A	LSCS	91	NS	monofilament nylon gillnet	see number
	ovaries, presence/absence	N/A	LSCS	77	NS	monofilament nylon gillnet	see number
	ovaries, relative developmental stage	N/A	LSCS	77	NS	monofilament nylon gillnet	see number
	ovaries, weight	g	LSCS	1	1	monofilament nylon gillnet	see number
	egg diameter	mm	LSCS	12	NS	monofilament nylon gillnet	see number
	egg number	ones	LSCS	1	1	monofilament nylon gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	NS	N/A	N/A	N/A	
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	mature gonads classified as green (G), ripe (R), or will not spawn (WS); method of McCart et al. (1972); Note 11	NS	NS	2	Decision as to whether a fish was immature or mature based on gonad weight and gonad width.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	NS	N/A	N/A	2	
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	mature gonads classified as green (G), ripe (R), or will not spawn (WS), method of McCart et al. (1972); Note 11	NS	NS	2	Decision as to whether a fish was immature or mature based on gonad weight, gonad width, and egg diameter.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	to nearest 0.1 g with triple beam balance; for weights <1.0 g, to nearest 0.01 g with tension balance	NS	NS	2	Total ovarian weight and weights of subsamples determined. Utilized for determining fecundity.
see number	none, analysis on site; sometimes samples which could not be examined immediately were frozen	measured with calipers, to nearest 0.1 mm; 10 eggs lined up in a row and an average diameter for one egg calculated	NS	NS	2	
see number	preserved; method not specified	counts conducted only on mature, green gonads; counts made on a subsample and total fecundity determined by simple proportion; total ovarian weight and weights of subsamples determined during field dissection with the latter preserved for later counting. Accuracy of technique checked by	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0023 Cont'd	egg number cont'd						
	Food:						
	gut contents, identification	N/A	LSCS	75	NS	monofilament nylon gillnet	see number
73-0125	Number:						
	in gillnet	ones (#/net /24 h)	PCHR	NS	15	gillnet	25,38,51,63,89, 114, and 140 mm mesh sizes; Note 1
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			NRPK				
			ARCD				
			SFCD				
			BRBT				
	in trawl	ones	RNSM	33	23	otter trawl	Note 5
			ARCD				
			SFCD				
			NRSL				
			ELPT				
			ASSC				
			ARFL				
			STFL				
	in trawl	ones	ARCD	16	16	Isaacs-Kidd mid-water trawl	Note 10
			SFCD				
			BESC				
			GLSF				
			OTHER[1]				
	Identification:	N/A	PCHR	153	13	see number	see number
			ARCS	261	11		
			LKWT	10	3		
			BDWT	5	3		
			LSCS	612	11		
			INCO	12	2		
			RNSM	517	18		
			NRPK	1	1		
			ARCD	8	3		
			SFCD	116	10		
			BRBT	2	1		
			ELPT	23	3		
			NRSL	9	1		
			ASSC	142	6		
			ARFL	202	8		
			STFL	1	1		
	Morphometrics:						
	length, total	mm	BRBT	2	1	see number	see number
			ELPT	23	3		
			ASSC	142	6		
			ARFL	202	8		
			STFL	1	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
		direct count of total numbers after subsampling method had been employed (n=5 - all LSCS from freshwater)				
see number	none, analysis on site, sometimes samples which could not be examined immediately were frozen	identified to taxonomic class or order	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none; analysis on site	counted by ones	NS	NS	2	
Note 10	10% formalin	counted by ones	NS	NS	2	[1]Gadidae, *Boreogadus* sp., *Boreogadus* sp.?. *Arctogadus* sp.
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0125 Cont'd	length, fork	mm	PCHR	153	13	see number	see number
			ARCS	261	11		
			LKWT	10	3		
			BDWT	5	3		
			LSCS	612	11		
			INCO	12	2		
			RNSM	516	18		
			NRPK	1	1		
			ARCD	8	3		
			SFCD	116	10		
			NRSL	9	1		
	weight	g	PCHR	65	5	see number	see number
			ARCS	3	1		
			LKWT	1	1		
			BDWT	4	2		
			LSCS	8	1		
			RNSM	49	5		
			ARCD	4	2		
			SFCD	116	10		
			ELPT	23	3		
			NRSL	9	1		
			ASSC	142	6		
			ARFL	200	7		
	Age:						
	# of annuli, scale	years	SFCD	1	1	otter trawl	see number
	# of annuli, otolith	years	SFCD	1	1	otter trawl	see number
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	71	13	see number	see number
			ARCS	144	10		
			BDWT	4	1		
			LSCS	279	10		
			INCO	8	1		
			RNSM	205	15		
			ARCD	1	1		
			SFCD	54	7		
			BRBT	1	1		
			ELPT	15	3		
			NRSL	3	1		
			ASSC	58	6		
			ARFL	107	5		
	testes, relative developmental stage	N/A	PCHR	42	5	see number	see number
			ARCS	1	1		
			BDWT	4	2		
			LSCS	3	1		
			RNSM	17	4		
			SFCD	54	7		
			ELPT	15	3		
			NRSL	3	1		
			ASSC	58	6		
			ARFL	105	5		
	testes, size	mm	PCHR	40	11	see number	see number
			ARCS	143	10		
			LSCS	271	9		
			INCO	8	1		
			RNSM	188	13		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	annuli counted with aid of a microscope projector	NS	NS	2	
see number	Note 18	gadid otoliths split to reveal annuli; salmonid otoliths used 'as is'	NS	NS	2	In addition, 45 RNSM, 3 ARCD, 109 SFCD, 23 ELPT, 9 NRSL, 139 ASSC, and 185 ARFL aged, but method not given (although likely derived from otoliths).
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0125 Cont'd	testes, size cont'd		ARCD	1	1		
			SFCD	6	2		
			ELPT	14	3		
			NRSL	1	1		
			ASSC	40	5		
			ARFL	72	4		
	testes, weight	g	SFCD	11	2	see number	see number
			ELPT	2	1		
	ovaries, presence/ absence	N/A	PCHR	67	12	see number	see number
			ARCS	88	9		
			LKWT	3	2		
			LSCS	249	10		
			RNSM	152	12		
			ARCD	7	3		
			SFCD	34	7		
			BRBT	1	1		
			ELPT	6	2		
			NRSL	6	1		
			ASSC	74	6		
			ARFL	78	7		
			STFL	1	1		
	ovaries, relative developmental stage	N/A	PCHR	21	4	see number	see number
			LKWT	1	1		
			LSCS	9	3		
			RNSM	5	3		
			ARCD	2	2		
			SFCD	34	7		
			ELPT	6	2		
			NRSL	6	1		
			ASSC	74	6		
			ARFL	78	7		
	ovaries, weight	g	ELPT	1	1	see number	see number
	egg diameter	mm	PCHR	15	7	see number	see number
			ARCS	69	5		
			LKWT	2	1		
			LSCS	19	8		
			RNSM	90	10		
			ARCD	5	3		
			SFCD	1	1		
			ELPT	5	2		
			NRSL	6	1		
			ASSC	50	5		
			ARFL	38	5		
	Food:						
	gut contents, identification	N/A	PCHR	19	4	see number	see number
			ARCS	2	1		
			BDWT	1	1		
			LSCS	8	1		
			INCO	1	1		
			RNSM	23	8		
			ARCD	3	2		
			SFCD	32	6		
			ELPT	10	3		
			ASSC	45	5		
			ARFL	118	6		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none; analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average diameter of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
73-0125 Cont'd	Parasitology: presence/absence, by organ	N/A	LSCS ARCD SFCD ASSC	66 3 2 3	8 1 2 3	see number	see number
73-0126	Number: in gillnet	ones	INCO FHSC	57	3	gillnet	a) 30.5x2.4 m; 76 and 114 mm mesh sizes. b) 30.5x6.1 m; 140 mm mesh size
	Identification:	N/A	INCO FHSC	5 2	1 1	gillnet	see number
	Morphometrics: length[1]	mm	INCO FHSC	5 1	1 1	gillnet	see number
	Age: # of annuli, scales[1]					gillnet	see number
	Reproduction: testes, presence/absence	N/A	FHSC	1	1	gillnet	see number
	testes, relative developmental stage	N/A	FHSC	1	1	gillnet	see number
	ovaries, presence/absence	N/A	INCO FHSC	5 1	1 1	gillnet	see number
	ovaries, relative developmental stage	N/A	INCO FHSC	5 1	1 1	gillnet	see number
	Food: gut contents, identification	N/A	INCO FHSC	5 2	1 1	gillnet	see number
74-0003	Number: in gillnet	ones	ARCS LKWT BDWT LSCS INCO RNSM NRPK LNSK BRBT FHSC ARFL	38	19	gillnet	a) 77.6 m long; five-15.5 m panels of 25, 50,75,100, and 125 mm mesh sizes respectively (stretched mesh measure) b) 38.8 m long; five-7.8 m panels of 25, 50,75,100, and 125 mm mesh sizes respectively (stretched mesh measure)

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	NS	NS	N/A	
set under ice; depth: 0.3-6.1 m; set duration: 20 h	none; analysis on site	counted by ones	NS	NS	2	
see number	none; analysis on site	NS	N/A	N/A	N/A	
see number	none; analysis on site	NS	NS	NS	2	[1]Type of length measurements not stated.
see number	NS	NS	NS	NS	N/A	[1]Scale samples taken from INCO; not aged.
see number	none, analysis on site	NS	N/A	N/A	N/A	
see number	none, analysis on site	NS	NS	NS	2	All were mature.
see number	none, analysis on site	NS	N/A	N/A	N/A	
see number	none, analysis on site	Immature and mature categories noted	NS	NS	2	
see number	none, analysis on site	following noted: sculpin, fish remains, Amphipods, clams	N/A	N/A	N/A	
duration: 25-23.5 h;	none; analysis on site	counted by ones	NS	NS	2	At the mid-point of the field season the 15.5 m panel of 50 mm mesh size was omitted.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0003 Cont'd	in seine haul	ones (#/ haul)	ARCS	61	15	beach seine	a) 23.3 m long b) 31 m long; 6.4 mm mesh size (stretched mesh measure)
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			DBSH				
			FHSC				
			NSSB				
			ARFL				
			OTHER[1]				
	in trawl	ones (#/ trawl)	LAMP	29	18	bottom trawl	mouth of 2.5x 6.1 m; 7.4 m long; 6.4 mm mesh size (stretched mesh measure) at the cod end
			ARCS				
			LSCS				
			RNSM				
			SFCD				
			BRBT				
			FHSC				
			NSSB				
			ARFL				
	Identification:	N/A	LAMP	3	1	see number	see number
			ARCS[1]	175	21		
			LKWT	15	1		
			BDWT	10	2		
			LSCS	420	25		
			INCO	36	4		
			RNSM	244	29		
			NRPK	9	1		
			LNSK	3	2		
			SFCD	16	7		
			BRBT	39	16		
			DBSH	1	1		
			FHSC[2]	193	17		
			NSSB	6	5		
			ARFL	20	7		
			OTHER[3]	49	10		
	Morphometrics: length, total	mm	BRBT	15	NS	see number	see number
			FHSC	193	17		
			ARFL	10	NS		
	length, fork	mm	ARCS	175	21	see numberq	see number
			LKWT	19	NS		
			BDWT	27	NS		
			LSCS	420	25		
			INCO	25	NS		
			RNSM	244	29		
			NRPK	4	1		
			SFCD	NS	NS		
	weight	g	ARCS	88	NS	see number	see number
			LSCS	162	NS		
			RNSM	185	NS		
			FHSC	95	NS		
	Age: # of annuli, scale	years	ARCS	NS	NS	see number	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
One to four hauls/station; set perpendicular to shore and then pulled in an arc to the shoreline.	none, analysis on site	counted by ones	NS	NS	2	
bottom tows; tow duration of 20 min.; tow velocity approximately 4.8 kph.	none, analysis on site	counted by ones	NS	NS	2	
see number	part of the catch sampled on site, while a portion examined in the laboratory	McPhail and Lindsey (1970) and also Scott and Crossman (1973) referred to and possibly utilized to identify freshwater and anadromous species	N/A	N/A	N/A	[1]Identification of smaller sizes questionable. [2]Number caught in one additional trawl sample not known. [3]LKWT and/or BDWT juveniles.
see number	part of catch sampled on site, while a portion examined in the laboratory	NS	NS	NS	2	Total number measured for length could not always be determined. The report states that fork length was measured on these species.
see number	part of catch sampled on site, while a portion examined in the laboratory	tip of snout to fork in tail	NS	NS	2	Total number measured for length could not always be determined.
see number	NS	NS	NS	NS	2	Could not be determined if weights measured for other species. Sample sizes determined from weight-length relationships.
see number	stored dry between glass slides	read under variable power microscope	NS	NS	1	Ages were determined from scales for comparison with otolith derived ages. Sample size unavailable.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0003 Cont'd	# of annuli, otolith	years	ARCS	84	NS	see number	see number
			LKWT	19	NS		
			BDWT	27	NS		
			LSCS	157	NS		
			INCO	25	NS		
			RNSM	171	NS		
			NRPK	4	NS		
			BRBT	15	NS		
			FHSC	NS	NS		
			ARFL	10	NS		
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	27	NS	see number	see number
			LKWT	8	NS		
			BDWT	4	NS		
			LSCS	64	NS		
			INCO	13	NS		
			RNSM	57	NS		
			NRPK	1	1		
			BRBT	12	NS		
			FHSC	28	NS		
			ARFL	4	NS		
	testes, relative developmental stage	N/A	ARCS	27	NS	see number	see number
			LKWT	8	NS		
			BDWT	4	NS		
			LSCS	64	NS		
			INCO	13	NS		
			RNSM	57	NS		
			NRPK	1	NS		
			BRBT	12	NS		
			FHSC	28	NS		
			ARFL	4	NS		
	ovaries, presence/ absence	N/A	ARCS	23	NS	see number	see number
			LKWT	9	NS		
			BDWT	2	NS		
			LSCS	55	NS		
			INCO	13	NS		
			RNSM	43	NS		
			NRPK	3	NS		
			FHSC	33	NS		
			ARFL	4	NS		
	ovaries, relative developmental stage	N/A	ARCS	23	NS	see number	see number
			LKWT	9	NS		
			BDWT	2	NS		
			LSCS	55	NS		
			INCO	13	NS		
			RNSM	43	NS		
			NRPK	3	NS		
			FHSC	33	NS		
			ARFL	4	NS		
	egg diameter	mm	ARCS	NS	NS	see number	see number
			LKWT	1	1		
			LSCS	NS	NS		
			FHSC	20			
	Food:						
	gut contents, identification	N/A	ARCS	86	NS	see number	see number
			LKWT	11	NS		
			BDWT	28	NS		
			LSCS	157	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	stored in vials in 100% glycerine	read under variable power microscope; ages determined independently by two readers; disagreements resulted in further examination of the otolith(s); followed criteria of Nordeng (1961)	NS	NS	4	FHSC aged, but data was considered unreliable and therefore excluded from report.
see number	part of catch sampled on site, while a portion examined in laboratory	NS	N/A	N/A	N/A	
see number	part of catch sampled on site, while a portion examined in laboratory	mature gonads categorized as ripe (sexual products could be extruded by gentle pressure on abdomen) or green (sexual products could not be extruded by pressure)	NS	NS	2	Fish which would not spawn in upcoming spawning season and which showed no signs of previous spawning were considered immature. Fish which would spawn in upcoming spawning season or showed signs of previous spawning were considered mature.
see number	part of catch sampled on site, while a portion examined in laboratory	NS	N/A	N/A	N/A	
see number	part of catch sampled on site, while a portion examined in laboratory	mature gonads categorized as ripe (sexual products could be extruded by gentle pressure on abdomen) or green (sexual products could not be extruded by pressure)	NS	NS	2	Fish which would not spawn in upcoming spawning season and which showed no signs of previous spawning were considered immature. Fish which would spawn in upcoming spawning season or showed signs of previous spawning were considered mature.
see number	part of catch sampled on site, while a portion examined in laboratory	average diameter calculated by measuring combined length of 10 eggs in a row	NS	NS	2	
see number	NS	stomach contents identified to taxonomic Order	N/A	N/A	N/A	1972 and 1974 data pooled in report. Sample sizes estimated by subtracting sample sizes for each

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0003 Cont'd	gut contents, identification cont'd		INCO	36			
			RNSM	197			
			NRPK	9			
			LNSK	2			
			SFCD	4			
			BRBT	23			
			FHSC	104			
			ARFL	8			
74-0008	Number:						
	in seine haul	ones	ARCS	3	2	beach seine	NS
			BDWT				
			LSCS				
			ARFL				
			OTHER				
	Identification:	N/A	ARCS	10	2	beach seine	NS
			BDWT	1	1		
			LSCS	13	2		
			ARFL	1	1		
			OTHER[1]	60+	1		
74-0011	Number:						
	in gillnet	ones (#/h)	ARCS	NS	17[1]	gillnet	monofilament nylon; 91.2x2.4 m; six-15.2 m panels of 25, 51,114,63,38, and 89 mm mesh sizes respectively (stretched mesh measure)
			LSCS				
			INCO				
			CHAR				
			ARGR				
			FHSC				
			ARFL				
	in seine haul	ones	FHSC	NS	33[1]	seine	a) 3 m pole seine; fine nylon mesh size b) 6 m pole seine; fine nylon mesh size c) 18 m beach seine; fine nylon mesh size.
			NSSB				
	Identification:	N/A	ARCS	750	12	see number	see number
			LSCS	34	2		
			INCO	1	1		
			CHAR	280	15		
			ARGR	1	1		
			FHSC	503	17		
			NSSB	17[1]	4		
			ARFL	19	4		
	Morphometrics:						
	length, total	mm	FHSC	503	17	see number	see number
			ARFL	19	4		
	length, fork	mm	ARCS	746	12	gillnet	see number
			LSCS	34	2		
			CHAR	272[1]	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
						species in 1972 from pooled sampled size. Includes empty stomachs.
NS	NS	counted by ones	NS	NS	2	
NS	preserved in formaldehyde	NS	NS	NS	N/A	[1]OTHER - refers to coregonids, cottids, and pleuronectids.
depth: 0.1-12 m; set duration: 1-24 h	none, analysis on site	counted by ones	NS	NS	2	Several gangs utilized - one of which had the 114 mm mesh size panel replaced by one of 102 mm mesh size. [1]Sampling concentrated at two stations, A and B.
NS	none, analysis on site	counted by ones	NS	NS	2	[1]Approximate
see number	none, analysis on site; dissected within 24 h	NS	N/A	N/A	N/A	[1]Includes some from freshwater collections.
see number	none, analysis on site; dissected within 24 h	to nearest mm	NS	NS	2	
see number	none, analysis on site; dissected within 24 h	to nearest mm	NS	NS	2	[1]Sample size is for those on which both length and age were determined.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0011 Cont'd	weight	g	ARCS	81	NS	gillnet	see number
			LSCS	33	2		
			CHAR	75	NS		
			FHSC	95	NS		
			ARFL	19	4		
	Age:						
	# of annuli, scale	years	NS	NS	NS	see number	see number
	# of annuli, otolith	years	ARCS	306	NS	see number	see number
			LSCS	34	2		
			CHAR	272	NS		
			FHSC	293	NS		
			ARFL	19	4		
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	414	NS	gillnet	see number
			LSCS	8	NS		
			CHAR	108	NS		
			FHSC	95	NS		
	testes, relative developmental stage	N/A	ARCS	154	NS	gillnet	see number
			LSCS	8	NS		
			CHAR	108	NS		
			FHSC	95	NS		
	testes, weight	g	CHAR	72	NS	gillnet	see number
			FHSC	93	NS		
	ovaries, presence/ absence	N/A	ARCS	287	NS	gillnet	see number
			LSCS	26	NS		
			CHAR	159	NS		
			FHSC	153	NS		
	ovaries, relative developmental stage	N/A	ARCS	152	NS	gillnet	see number
			LSCS	26	NS		
			CHAR	159	NS		
			FHSC	153	NS		
	egg diameter	mm	ARCS	146	NS	gillnet	see number
			LSCS	26	NS		
			CHAR	158	NS		
			FHSC	153	NS		
	Food:						
	gut contents, identification	N/A	ARCS	344	NS	see number	see number
			LSCS	34	2		
			CHAR	206	NS		
			FHSC	314	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none; analysis on site; dissected within 24 h	to nearest 0.1 g; triple beam balance	NS	NS	2	Sample sizes are those given for weight-length relationships in the report.
see number	pressed between glass slides	NS	NS	NS	N/A	Report states that scales were collected, cleaned, and pressed between two glass slides - no other information given.
see number	glycerine	broken in half and annuli counted from cross-section, age estimated by three independent readers; method of Nordeng (1961)	NS	NS	2	Pectoral fin rays were also examined on FHSC.
see number	none, analysis on site; dissected within 24 h	gross examination	N/A	N/A	N/A	
see number	none, analysis on site; dissected within 24 h	gonads classified as immature, mature green, mature ripe or mature spawner; method of McCart et al. (1972) and Craig and Mann (1974); Note 12	NS	NS	2	
see number	none, analysis on site; dissected within 24 h	to nearest 0.1 g; triple beam balance	NS	NS	2	Sample size derived by counting points on figure in report.
see number	none, analysis on site; dissected within 24 h	gross examination	N/A	N/A	N/A	
see number	none, analysis on site; dissected within 24 h	gonads classified as immature, mature green, mature ripe or mature spawner; method of McCart et al. (1972) and Craig and Mann (1974); Note 12	NS	NS	2	
see number	none, analysis on site; dissected within 24 h	to nearest 0.1 mm; mean diameter of 10 eggs, of the largest size, lined up in a row	NS	NS	2	Sample size derived by counting points on figure in report.
see number	10% formalin	contents viewed with binocular dissection microscope; food items	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0011 Cont'd	gut contents, identification cont'd		ARFL	19	4		
74-0020	Number:						
	in gillnet	ones	PCHR	93	46	gillnet	18.3 m long; six - 3.05 m panels of 38, 51,76,102,127, and 140 mm mesh sizes respectively[2]
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			LKTR				
			RNSM				
			NRPK				
			LNSK				
			SFCD				
			BRBT				
			FHSC				
			ARFL				
			STFL				
			OTHER[1]				
	in seine haul	ones	LKWT	23?	14	beach seine	a) 45 m long; 13 mm mesh size b) 9.1 m long; 6 mm mesh size
			BDWT				
			LSCS				
			INCO				
			PDSM				
			RNSM				
			NRPK				
			LNSK				
			BRBT				
			FHSC				
			NSSB				
			ARFL				
			OTHER[1]				
	in trap	ones	ARCS	6	1	trap net	NS
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			LNSK				
			BRBT				
			OTHER[1]				
	Identification:	N/A	PCHR	44	4	see number	see number
			ARCS	106	17		
			LKWT	138	15		
			BDWT	92	11		
			LSCS	950	25		
			INCO	379	18		
			RDWT	1	1		
			LKTR	4	1		
			PDSM	3	1		
			RNSM	371	24		
			NRPK	8	4		
			LNSK	30	8		
			SFCD	21	5		
			BRBT	60	13		
			FHSC	275	17		
			NSSB	26	5		
			ARFL	59	11		
			STFL	6	3		
			OTHER[1]				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
		Identified to taxonomic Class, Order, or Family				
set duration: 3.0-71.0 h	none, analysis on site	counted by ones	NS	NS	2	[1]Unidentified coregonids. [2]Mesh size given is probably stretched mesh measure.
NS	none, analysis on site	counted by ones	NS	NS	2	[1]Unidentified coregonids and trout perch (*Percopsis omiscomaycus*).
set duration: 18.0-49.5 h	none, analysis on site	counted by ones	NS	NS	2	[1]Unidentified whitefish
see number	large specimens: none, analysis on site; small specimens: 10% formalin	seine catches identified to species (larval coregonids to genus only) utilizing McPhail and Lindsey (1970). D.E. McAllister, National Museum of Canada, verified a number of samples	N/A	N/A	N/A	Some specimens deposited at National Museum of Canada. [1]Unidentified whitefish (n=55, cisco (n=175) and *Percopsis omiscomaycus* (n=1).

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0020	Morphometrics:						
Cont'd	length, total	mm	BRBT	77	NS	see number	see number
			FHSC	109	NS		
			NSSB	73	NS		
			ARFL	55	NS		
			STFL	7	NS		
	length, fork	mm	PCHR	42	NS	see number	see number
			ARCS	106	NS		
			LKWT	462	NS		
			BDWT	334	NS		
			LSCS	849	NS		
			INCO	525	NS		
			RDWT	1	1		
			PDSM	3	NS		
			RNSM	367	NS		
			NRPK	180	NS		
			LNSK	22	NS		
			SFCD	20	NS		
			OTHER[1]				
	weight	g	ARCS	138	NS	see number	see number
			LKWT	294	NS		
			BDWT	170	NS		
			LSCS	514	NS		
			INCO	388	NS		
			LKTR	16	NS		
			RNSM	299	NS		
			NRPK	131	NS		
			LNSK	12	NS		
			BRBT	39	NS		
	# of gillrakers	ones	LKWT	16	NS	see number	see number
			BDWT	3	NS		
	# of pyloric caeca	ones	LKWT	15	NS	see number	see number
			BDWT	3	NS		
	# of lateral line scales	ones	LKWT	15	NS	see number	see number
			BDWT	3	NS		
	Age:						
	# of annuli, scale	years	ARCS	126	NS	see number	see number
			LKWT	211	NS		
			BDWT	142	NS		
			LSCS	165	NS		
			INCO	271	NS		
			NRPK	101	NS		
	# of annuli, otolith	years	LKTR	11	NS	see number	see number
			RNSM	175	NS		
			SFCD	11	NS		
			BRBT	12	NS		
			FHSC	74	NS		
			NSSB	17	NS		
			ARFL	30	NS		
			STFL	3	NS		
	Reproduction:						
	testes, presence/absence	N/A	PCHR	21		gillnet	see number
			ARCS	84			
			LKWT	128			
			BDWT	75			

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	large specimens: none, analysis on site; small specimens: 10% formalin	NS	NS	NS	2	Sample sizes include specimens from freshwater.
see number	large specimens: none, analysis on site; small specimens: 10% formalin	NS	NS	NS	2	[1]Unidentified coregonids - whitefish (n=55), cisco (n=206). Sample sizes include specimens from freshwater.
see number	none, analysis on site	NS	NS	NS	2	Sample sizes include specimens from freshwater and determined from weight-length relationship analysis.
see number	NS	counted (for both upper and lower left arch) under magnification	NS	NS	3	Sample size may include freshwater samples.
see number	NS	counts include all tips of branched caeca	NS	NS	3	Sample size may include freshwater samples. Two counts identified as unreliable in report.
see number	NS	counted from bony shoulder girdle to caudal flexure	NS	NS	3	Sample size may include freshwater samples.
see number	NS	annuli counted with aid of a trichinoscope	NS	NS	2	Scales of PCHR proved unsuitable for ageing. Sample sizes include specimens from freshwater.
see number	50% glycerine	sawn in half, ends polished with carborundum and burned in a bunsen flame to enhance annuli	NS	NS	2	Sample sizes include specimens from freshwater.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0020 Cont'd	testes, presence/ absence cont'd		LSCS	270	NS		
			INCO	200	NS		
			LKTR	6	NS		
			RNSM	157	NS		
			NRPK	73	NS		
			LNSK	8	NS		
			SFCD	13	NS		
			BRBT	17	NS		
			FHSC	19	NS		
			ARFL	4	NS		
	testes, relative developmental stage	N/A	PCHR	21	NS	see number	see number
			ARCS	84?	NS		
			LKWT	128	NS		
			BDWT	75	NS		
			LSCS	270	NS		
			INCO	200	NS		
			LKTR	6	NS		
			RNSM	157	NS		
			NRPK	73	NS		
			LNSK	8	NS		
			SFCD	13	NS		
			BRBT	17	NS		
			FHSC	19	NS		
			ARFL	4	NS		
	ovaries, presence/ absence	N/A	PCHR	14	NS	see number	see number
			ARCS	84?	NS		
			LKWT	120	NS		
			BDWT	77	NS		
			LSCS	166?	NS		
			INCO	164	NS		
			LKTR	5	NS		
			RNSM	77?	NS		
			NRPK	55	NS		
			LNSK	3	NS		
			SFCD	4	NS		
			BRBT	12	NS		
			FHSC	72	NS		
			ARFL	2	NS		
	ovaries, relative developmental stage	N/A	PCHR	14	NS	see number	see number
			ARCS	84?	NS		
			LKWT	120	NS		
			BDWT	77	NS		
			LSCS	166?	NS		
			INCO	164	NS		
			LKTR	5	NS		
			RNSM	77?	NS		
			NRPK	55	NS		
			LNSK	3	NS		
			SFCD	4	NS		
			BRBT	12	NS		
			FHSC	72	NS		
			ARFL	2	NS		
	Food:						
	gut contents, volume	ml	PCHR	20	NS	gillnet	see number
			ARCS	121	NS		
			LKWT	92	NS		
			LSCS	338	NS		
			INCO	184	NS		
			RNSM	311	NS		
			SFCD	10	NS		
			BRBT	32	NS		
			FHSC	81	NS		
			ARFL	21	NS		
			STFL	2	NS		
			OTHER[1]				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	gonads classified as 1 (minor development), 2 (moderate development), 3 (advanced development), 4 (ripe or spawning) or 5 (spent); Note 13	NS	NS	2	Sample sizes include specimens from freshwater.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	Sample sizes include specimens from freshwater.
see number	none, analysis on site	gonads classified as 1 (minor development), 2 (moderate development), 3 (advanced development), 4 (ripe or spawning), or 5 (spent); Note 13	NS	NS	2	
see number	full stomachs preserved in 10% formalin	displacement of liquid in volumetric flask	NS	NS	2	Sample sizes are for coastal collections only, except for FHSC (which may contain freshwater samples). Include empty stomachs. [1] Gut contents of unidentified whitefish (n=91) and cisco (n=96) captured in coastal waters with beach seines were also sampled.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0020 Cont'd	gut contents, volume cont'd						
	gut contents, number of individuals	ones	PCHR	20	NS	gillnet	see number
			ARCS	121	NS		
			LKWT	92	NS		
			LSCS	338	NS		
			INCO	184	NS		
			RNSM	311	NS		
			SFCD	10	NS		
			BRBT	32	NS		
			FHSC	81	NS		
			ARFL	21	NS		
			STFL	2	NS		
			OTHER[1]				
	gut contents, identification	N/A	PCHR	20	NS	gillnet	see number
			ARCS	121	NS		
			LKWT	92	NS		
			LSCS	338	NS		
			INCO	184	NS		
			RNSM	311	NS		
			SFCD	10	NS		
			BRBT	32	NS		
			FHSC	81	NS		
			ARFL	21	NS		
			STFL	2	NS		
			OTHER[1]				
	Movements:						
	# of fish tagged	ones	ARCS	17	NS	see number	see number
			LKWT	19	NS		
			BDWT	31	NS		
			LSCS	155	NS		
			INCO	39	NS		
			RNSM	1	1		
			LNSK	8	NS		
			BRBT	25	NS		
			FHSC	4	NS		
	# of fish recaptured[1]						

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	full stomachs preserved in 10% formalin	counted by ones	NS	NS	2	An additional number of RNSM (n=28), FHSC (n=63), NSSB (n=34), and ARFL (n=7) captured by seine were also examined, but may contain freshwater data. Sample sizes are for coastal collections only, except for FHSC which may include freshwater samples. Totals include number of empty stomachs. [1] Gut contents of unidentified whitefish (n=91) and cisco (n=96) captured in coastal waters with seines also sampled.
see number	full stomachs preserved in 10% formalin	to species when possible (for fish) and usually to taxonomic Class or Order. Some invertebrates were identified by J.W. Wacasey (Arctic Biological Station)	N/A	N/A	N/A	An additional number of RNSM (n=28), FHSC (n=63), NSSB (n=34) and ARFL (n=7) captured by seines were also examined, but may contain data from freshwater. Sample sizes are for coastal collections only, except for FHSC which may include freshwater samples. Totals include number of empty stomachs. [1] Gut contents of unidentified whitefish (n=91) and cisco (n=96) captured in coastal waters with seines also sampled.
see number	none, analysis on site	coded vinyl floy tags inserted by means of a cartridge-fed tagging gun, at posterior base of dorsal fin	N/A	N/A	N/A	An additional number of RNSM (n=28), FHSC (n=63), NSSB (n=34) and ARFL (n=7) captured by seines were also examined, but may contain data from freshwater. Coastal stations only.

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[1] No information available.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0021	Number:						
	in gillnet	ones	ARCS	6	6	monofilament nylon gillnet	a) Winter Survey: 1 panel of 30.5 x6m[1], and 3 panels of 15.0 x2.5 m of 130, 75,50, and 25 mm mesh sizes respectively
			FHSC				
			PCHR	70	37	monofilament/ polyfilament nylon gillnet	b) Summer Survey: 60.0 x 2.5 m; four - 15 m panels of 25,50,75, and 100 mm mesh sizes respectively stretched mesh measure); the 100 mm polyfilament
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			RDWT				
			INCO				
			CHAR				
			ARGR				
			RNSM				
			LNSK				
			ARCD				
			SFCD				
			BRBT				
			FHSC				
			NSSB				
			ARFL				
			STFL				
	in seine haul	ones	ARCS	NS	NS	beach seine	a) 4.6x2.7 m with 10 mm mesh size and centre bunt of 5 mm mesh size
			LKWT				
			BDWT				
			LSCS				
			CHAR				
			RNSM				
			FHSC				b) 9.0x1.2 m with 3 mm mesh size
			NSSB				
			ARFL				
			STFL				
						pole seine	6.0x1.0 m with 3 mm mesh size
	Identification:	N/A	PCHR	1	1	gillnet	see number
			ARCS	1388	NS		
			LKWT	57	NS		
			BDWT	8	NS		
			LSCS	2845	NS		
			RDWT	2	NS		
			INCO	52	NS		
			CHAR	218	NS		
			ARGR	9[1]	NS		
			RNSM	129	NS		
			LNSK	1	1		
			ARCD	1	1		
			SFCD	2	NS		
			BRBT	6	NS		
			FHSC	118	NS		
			ARFL	22	NS		
			STFL	2	NS		
	Morphometrics:						
	length, total	mm	BRBT	9	NS	see number	see number
			FHSC	124	NS		
			NSSB	43	NS		
			ARFL	21	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
set under ice; depth: bottom and near under surface of ice; duration: 36.0-196.5 h, but checked daily when possible; never longer than 53 h without checking usually perpendicular to shore; depth: bottom; duration: initially 24 h but reduced to 4 h and then 2 h	none, analysis on site	counted by ones	NS	NS	2	[1]Not used at one station because of shallow depth.
fished at corresponding times/ locations with gillnet sets	none; analysis on site	counted by ones	NS	NS	2	
see number	small fish in seine and those which could not be identified in the field preserved in 10% formalin	McAllister (MS); McPhail and Lindsey (1970)	N/A	N/A	N/A	Sample sizes are for gillnet catches only and are approximate. [1]1974 and 1975 samples.
see number	none; analysis on site (except for small specimens which	NS	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0021 Cont'd	length, total cont'd		STFL	5	NS		
	length, fork	mm	PCHR	12	NS	see number	see number
			ARCS	1493	NS		
			LKWT	91	NS		
			BDWT	11	NS		
			LSCS	2706	NS		
			INCO	31	NS		
			CHAR	214	NS		
			ARGR	9	NS		
			RNSM	NS	NS		
			ARCD	1	1		
			SFCD	4	NS		
	weight[1]	g				see number	see number
	Age:						
	# of annuli, scale	years	ARCS	837	NS	see number	see number
			LKWT	91	NS		
			BDWT	NS	NS		
			LSCS	518	NS		
			INCO	31	NS		
			RNSM[1]	NS	NS		
	# of annuli, otolith	years	CHAR	182	NS	see number	see number
			RNSM	14	NS		
			FHSC	93	NS		
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	661	NS	see number	see number
			LKWT	31	NS		
			BDWT	5	NS		
			LSCS	1100	NS		
			INCO	21	NS		
			CHAR	64	NS		
			RNSM	47	NS		
			FHSC	17	NS		
			ARFL	1	1		
	testes, relative developmental stage	N/A	ARCS	661	NS	see number	see number
			LKWT	31	NS		
			BDWT	5	NS		
			LSCS	1100	NS		
			INCO	21	NS		
			CHAR	64	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
	were preserved in 10% formalin					
see number	none, analysis on site (except for small specimens which were preserved in 10% formalin)	NS	NS	NS	2	Some sample sizes include data from 1975.
see number	none; analysis on site	triple beam balance, except at one station where a hand spring scale was utilized	NS	NS	2	[1]Report states that gill-net captured fish were sampled for weight as were larger fish caught by seine. No data presented in report.
see number	NS	annulus defined as area of crossing over of circuli followed by increased distance between circuli	NS	NS	2	In some cases, fry one year old and less were aged according to length frequency distribution. [1]Scales proved unreliable for ageing. Some sample sizes include data from 1975.
see number	9:1 solution of alcohol and glycerine	method of Tesch (1971), Bain (1974), and Mann (1974)	NS	NS	2	In some cases, fry one year old and less were aged according to length-frequency distribution. A small otolith sample was also taken from a number of ARCS and LSCS to compare with scale derived ages. Report also states otoliths taken from ARGR, BRBT and cod, but no data presented. Some sample sizes may include data from 1975.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as immature, maturing, maturing green, ripe or spent; Note 14	NS	NS	2	

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0021 Cont'd	testes, relative developmental stage cont'd		RNSM	47	NS		
			FHSC	17	NS		
			ARFL	1	1		
	ovaries, presence/ absence	N/A	ARCS	500	NS	see number	see number
			LKWT	16	NS		
			BDWT	1	1		
			LSCS	1187	NS		
			INCO	24	NS		
			CHAR	121	NS		
			RNSM	62	NS		
			FHSC	36	NS		
			ARFL	7	NS		
	ovaries, relative developmental stage	N/A	ARCS	500	NS	see number	see number
			LKWT	16	NS		
			BDWT	1	1		
			LSCS	1187	NS		
			INCO	24	NS		
			CHAR	121	NS		
			RNSM	62	NS		
			FHSC	36	NS		
			ARFL	7	NS		
	Food:						
	gut contents, volume	ml?	ARCS	277	NS	see number	see number
			LKWT	11	NS		
			LSCS	114	NS		
			INCO	17	NS		
			CHAR	85	NS		
			RNSM	9	NS		
			BRBT	8	NS		
			FHSC	26	NS		
			ARFL				
			STFL	13[1]	NS		
	gut contents, identification	N/A	PCHR	4[1]	NS	see number	see number
			ARCS	999	NS		
			LKWT	36	NS		
			BDWT	3	NS		
			LSCS	547	NS		
			INCO	42	NS		
			CHAR	166	NS		
			RNSM	102	NS		
			BRBT	8	NS		
			FHSC	43	NS		
			NSSB	10	NS		
			ARFL				
			STFL	16[2]	NS		
	Movements:						
	# of fish tagged	ones	ARCS	74	NS	beach seine	see number
			LSCS	17	NS		
			CHAR	11	NS		
			FHSC	1	1		
	# of fish recaptured	ones	ARCS	1	1		
74-0119	Number:						
	in gillnet	ones	LAMP	Note 20	12	gillnet	13,25,38,51, 63,76,89,102, 114,127, and
			PCHR				
			ARCS				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as immature, maturing, maturing green, ripe or spent; Note 14	NS	NS	2	
see number	10% formalin (fry preserved whole)	volumetric displacement; method of Windell (1971)	NS	NS	3	An additional number of juveniles were also examined: ARCS (n=44), whitefish (n=35), LSCS (n=26), RNSM (n=11), and FHSC (n=15). Empty stomachs not included in total. [1] Total of ARFL and STFL combined.
see number	10% formalin (fry preserved whole)	identified to taxonomic order, family or in some cases species	N/A	N/A	N/A	An additional number of juveniles were also examined: ARCS (n=47), whitefish (n=45), LSCS (n=28), RNSM (n=22), and FHSC (n=15). Empty stomachs included in total. [1] Probably contains data from 1975. [2] Total of ARFL and STFL combined.
see number		Petersen disc tags placed just below posterior margin of dorsal fin	N/A	N/A	N/A	An ARCS tagged Stokes Pt. 27/07/74 recovered at mouth of Peel R. 05/11/74.
Note 1	none; analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0119 Cont'd	in gillnet cont'd		LKWT				140 mm mesh sizes; Note 1
			BDWT				
			LSCS				
			INCO				
			RNSM				
			BRBT				
			ARFL				
			STFL				
	in seine haul	ones	ARCS	Note 20	13	beach seine	Note 2
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			ARFL				
			STFL				
	in trawl	ones	SFCD	Note 20	2	otter trawl	Note 5
			ARFL				
			STFL				
	in trawl	ones	LAMP	13	13	Isaacs-Kidd mid-water trawl	Note 10
			ARCS				
			LSCS				
			RNSM				
			SFCD				
			NRSL				
	caught by plankton net	ones	NS	Note 20	38	plankton net	various sizes; Note 3
	caught by bottom grab	ones	NS	Note 20	1	bottom grab (Ekman, Peterson or Ponar grab)	NS; Note 3
	Identification:	N/A	LAMP	7	5	see number	see number
			PCHR	73	3		
			ARCS	603	26		
			LKWT	180	15		
			BDWT	58	9		
			LSCS	1060	21		
			INCO	84	3		
			RNSM	489	20		
			SFCD	20	7		
			BRBT	4	2		
			NRSL	1	1		
			ARFL	20	12		
			STFL	34	6		
	Morphometrics: length, total	mm	LAMP	7	5	see number	see number
			BRBT	4	2		
			ARFL	20	12		
			STFL	34	6		
	length, fork	mm	PCHR	73	3	see number	see number
			ARCS	470[1]	20		
			LKWT	180	15		
			BDWT	58	9		
			LSCS	1060	21		
			INCO	84	3		
			RNSM	489	20		
			SFCD	20	7		
			NRSL	1	1		
	weight	g	PCHR	73	3	see number	see number
			ARCS	341	12		
			LKWT	122	12		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	
Note 10	10% formalin	counted by ones	NS	NS	2	LKWT, NSSB also captured (Galbraith and Hunter 1975).
NS	10% formalin	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	N/A	
see number	none, analysis on site, or 10% formalin; mid-water trawl samples in 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	[1] An additional 131 larval/juvenile ARCS measured to the nearest 0.1 mm.
see number	none, analysis on site, or 10% formalin;	to nearest 0.1 g for fish <25 g; to nearest 2 g for	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0119 Cont'd	weight cont'd		BDWT	47	7		
			LSCS	875	14		
			INCO	84	3		
			RNSM	439	10		
			SFCD	1	1		
			BRBT	4	2		
			ARFL	17	10		
			STFL	34	6		
	Age:						
	# of annuli, scale	years	ARCS	65	9	see number	see number
			LKWT	43	7		
			BDWT	16	3		
			LSCS	92	12		
			INCO	32	3		
			RNSM	49	4		
	# of annuli, otolith	years	ARCS	66	10	see number	see number
			LKWT	43	7		
			BDWT	16	3		
			LSCS	98	12		
			INCO	32	3		
			RNSM	50	4		
			BRBT	2	1		
			ARFL	5	5		
			STFL	16	3		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	35	2	see number	see number
			ARCS	154	10		
			LKWT	68	10		
			BDWT	21	3		
			LSCS	416	4		
			INCO	57	2		
			RNSM	182	8		
			SFCD	2	1		
			BRBT	3	1		
			ARFL	8	5		
			STFL	26	4		
	testes, relative developmental stage	N/A	LSCS	5	2	gillnet	see number
			RNSM	1	1		
	testes, size	mm	PCHR	35	2	see number	see number
			ARCS	111	9		
			LKWT	21	8		
			BDWT	5	3		
			LSCS	410	14		
			INCO	1	1		
			RNSM	171	7		
			ARFL	3	3		
			STFL	7	3		
	testes, weight	g	LSCS	1	1	see number	see number
			STFL	1	1		
	ovaries, presence/ absence	N/A	PCHR	36	2	see number	see number
			ARCS	131	10		
			LKWT	49	7		
			BDWT	23	4		
			LSCS	292	12		
			INCO	25	2		
			RNSM	187	10		
			ARFL	4	3		
			STFL	7	2		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
	Note 17	fish between 25 and 250 g; to nearest 10 g for fish >250 g				
see number	Note 18	annuli counted with aid of microscope projector	NS	NS	2	See below.
see number	Note 18	gadid otoliths split to reveal annuli; salmonid otoliths used 'as is'	NS	NS	2	Some unaged scale/otolith samples may exist. In addition, 1 ARCS, 1 LKWT, 1 BDWT, 2 LSCS, 9 RNSM, 5 SFCD and 4 ARFL were aged but no method given.
see number	none, analysis on site; or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
74-0119 Cont'd	ovaries, relative developmental stage	N/A	PCHR	2	1	see number	see number
			ARCS	57	8		
			LKWT	25	5		
			BDWT	9	2		
			LSCS	191	10		
			INCO	11	1		
			RNSM	75	3		
			ARFL	2	1		
	egg diameter	mm	PCHR	32	2	see number	see number
			ARCS	69	6		
			LKWT	23	4		
			BDWT	14	3		
			LSCS	101	12		
			INCO	12	1		
			RNSM	111	10		
			ARFL	2	2		
			STFL	6	2		
	Food:						
	gut contents, identification	N/A	ARCS	14	1	see number	see number
			LKWT	11	2		
			BDWT	5	1		
			LSCS	6	1		
			INCO	14	1		
			RNSM	3	3		
			BRBT	2	1		
	Parasitology:						
	presence/absence, by organ	N/A	ARCS	1	1	see number	see number
			LSCS	4	3		
75-0004	Number:						
	in gillnet	ones (#/h/ standard net length)	PCHR	17	13	gillnet	77.6x2.4 m; five-15.5 m panels of 25, 50,75,100, and 125 mm mesh sizes respectively (stretched mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			NRPK				
			LNSK				
			SFCD				
			BRBT				
			FHSC				
			ARFL				
			OTHER[1]				
	in seine haul	ones (#/ haul/ standard net length[1])	ARCS	14	68	beach seine	a) 30.8 m long; 6.5 mm mesh size (stretched mesh measure) b) 9.6 m long; 0.64 mm mesh size (stretched mesh measure)
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			FHSC				
			NSSB				
			ARFL				
			OTHER[2]				
	in trawl	ones	LAMP	11	8	bottom trawl	mouth of 2.5x 1.6 m; 7.4 m long; 6.5 mm mesh size (stretched mesh measure)
			ARCS				
			LSCS				
			RNSM				
			ARCD				
			SFCD				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
set duration: 3-29 h	none, analysis on site	counted by ones	NS	NS	2	[1]Coregonids
1-3 hauls /station; set perpendicular to shore and then pulled in an arc to the shoreline	none, analysis on site	counted by ones	NS	NS	2	[1]Not calculated for 9.6 m seine. [2]Coregonids
bottom tows; tow speed approximately 4.8 kph	none, analysis on site	counted by ones	NS	NS	2	[1]*Ammodytes* sp. and unidentified coregonids. SFCD taken but not counted.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0004 Cont'd	in trawl cont'd		BRBT				at the cod end
			FHSC				
			OTHER[1]				
	in trawl	ones	RNSM	9	7	epibenthic sled	mouth of 1x1 m; 3 m long; 12.7, 6.4, and 3.2 mm mesh sizes at the cod end; mounted on sled runners; TSK flow meter mounted in net mouth
			BRBT				
			FHSC				
			OTHER				
	Identification:	N/A	LAMP	1	1	see number	see number
			PCHR	13	3		
			ARCS	282	21		
			LKWT	37	14		
			BDWT	15	5		
			LSCS	799	25		
			INCO	34	10		
			RNSM	360	22		
			NRPK	1	1		
			LNSK	1	1		
			ARCD	106	1		
			SFCD	10	3		
			BRBT	36	11		
			FHSC	235	19		
			NSSB	2	2		
			ARFL	101	7		
			OTHER[1]				
	Morphometrics: length, total[1]	mm	FHSC	112	NS	see number	see number
	length, fork	mm	ARCS	274	NS	see number	see number
			LSCS	796	NS		
			RNSM	318	NS		
	weight[1]	NS	NS	NS	NS	see number	see number
	Age: # of annuli, otolith[1]		NS	NS	NS	see number	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
bottom tows (approximately 0.15 m off bottom); tow duration of 20 min.; tow velocity approximately 3.7-5.6 kph	5% formalin	counted by ones	NS	NS	2	
see number	none, analysis on site, or 5% formalin	N.J. Wilimovsky, Institute of Animal Resource Ecology, University of British Columbia, is credited for identifying questionable fish species	N/A	N/A	N/A	[1]*Ammodytes* sp. (n=92), unidentified coregonids (n=55), and unidentified larvae (n=9). Sample sizes of ARCD and *Ammodytes* sp. given in text differ from values given in appendices (transposed).
see number	none, analysis on site	NS[1]	NS	NS	2	[1]Referred to as fork length in report which also states length was measured on all specimens captured. No data provided for LAMP, BRBT, NSSB or ARFL, however. Sample size determined from length-frequency distributions.
see number	none, analysis on site		NS	NS	2	Sample size determined from length-frequency distributions. Report states length was measured on all specimens captured. No data provided for PCHR, LKWT, BDWT, INCO, NRPK, LNSK, ARCD, SFCD, *Ammodytes* sp., or unidentified coregonids.
see number	none, analysis on site (in field laboratory)	NS	NS	NS	2	[1]Report states fish weights measured during detailed laboratory examinations. However, no data is presented.
see number	100% glycerine	N/A	N/A	N/A	N/A	[1]No analysis performed because of time and budgetary constraints.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0004 Cont'd	Reproduction:						
	testes, presence/ absence[1]	N/A	NS	NS	NS	see number	see number
	testes, relative developmental stage[1]	N/A	NS	NS	NS	see number	see number
	ovaries, presence/ absence[1]	N/A	NS	NS	NS	see number	see number
	ovaries, relative developmental stage[1]	N/A	NS	NS	NS	see number	see number
	egg diameter	mm	ARCS	NS	NS	see number	see number
			LSCS	NS	NS		
	Food:						
	gut contents, identification	N/A	ARCS	59	NS	see number	see number
			LKWT	6	NS		
			BDWT	1	1		
			LSCS	35	NS		
			INCO	13	NS		
			RNSM	40	NS		
			BRBT	4	NS		
			FHSC	1	1		
			ARFL	1	1		
75-0024	Number:						
	in gillnet	ones	PCHR	5	5	gillnet	18.3 m long; six - 3.05 m panels of 38, 51,76,102, and 140 mm mesh sizes respectively
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			BRBT				
			FHSC				
			ARFL				
			STFL				
	in trap		none	NS	NS	commercial minnow trap	NS
	Identification:	N/A	PCHR	4	1	gillnet	see number
			ARCS	1	1		
			LKWT	1	1		
			BDWT	1	1		
			LSCS	26	2		
			INCO	17	2		
			RNSM	3	2		
			BRBT	1	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site (in field laboratory)	NS	N/A	N/A	N/A	[1]Data not given in report.
see number	none, analysis on site (in field laboratory)	gonads of mature fish classified as ripe, spawned out, green, or non-spawners; Note 15	NS	NS	N/A	[1]Data not given in report. However, no ripe specimens captured.
see number	none, analysis on site (in field laboratory)	NS	N/A	N/A	N/A	[1]Data not given in report.
see number	none, analysis on site (in field laboratory)	gonads of mature fish classified as ripe, spawned out, green or non-spawners; Note 15	NS	NS	N/A	[1]Data not given in report. However, no ripe specimens captured.
see number	none, analysis on site (in field laboratory)	10 large eggs from green females were lined up in a row, the combined length measured, and an average calculated	NS	NS	N/A	Length ranges are referred to in report for ARCS and LSCS. No information on other species.
see number	none, analysis on site (in field laboratory)	contents identified to taxonomic order	N/A	N/A	N/A	Data in report pooled over 1972, 1974, and 1975. Sample sizes estimated by subtracting sample sizes for each species in 1972 and 1974 from pooled sample size.
depth: 1.0 -4.2 m; set under ice. set duration: 24-120 h; two gangs joined together were utilized	none, analysis on site	counted by ones	NS	NS	2	Mesh size given is probably stretched mesh measure. Ony 3 m of one 36 m gang recovered at one station.
NS	NS	NS	NS	NS	N/A	Report states that traps proved to be inefficient.
see number	none; analysis on site	McPhail and Lindsey (1970)?	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement		Species	No. of Samples	No. of Stations	Gear Type	Gear Description
	Parameter	Units					
75-0024 Cont'd	Identification cont'd		FHSC	15	2		
			ARFL	4	1		
			STFL	1	1		
	Morphometrics:						
	length, total	mm	BRBT	1	1	gillnet	see number
			FHSC	7	1		
			ARFL	4	1		
			STFL	1	1		
	length, fork	mm	PCHR	4	1	gillnet	see number
			BDWT	1	1		
			INCO	14	2		
			RNSM	1	1		
	weight	g	PCHR	4	1	gillnet	see number
			BDWT	1	1		
			LSCS	1	1		
			INCO	13	1		
			RNSM	1	1		
			BRBT	1	1		
			FHSC	7	1		
			ARFL	4	1		
			STFL	1	1		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	2	1	gillnet	see number
			LSCS	1	1		
			INCO	4	1		
			RNSM	1	1		
			BRBT	1	1		
			FHSC	4	1		
	testes, relative developmental stage	N/A	PCHR	2	1	gillnet	see number
			LSCS	1	1		
			INCO	4	1		
			RNSM	1	1		
			BRBT	1	1		
			FHSC	4	1		
	ovaries, presence/ absence	N/A	PCHR	2	1	gillnet	see number
			INCO	9	1		
			FHSC	1	1		
	ovaries, relative developmental stage	N/A	PCHR	2	1	gillnet	see number
			INCO	9	1		
			FHSC	1	1		
	Food:						
	gut contents, identification	N/A	INCO	16	1	gillnet	see number
75-0025	Number:						
	in gillnet	ones	PCHR	6	6	monofilament nylon gillnet	a) Winter Survey: 60x2.5 m; four - 15x 2.5 m panels of 25,50,75, and 100 mm mesh sizes
			ARCS				
			FHSC				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	NS	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as 1 (minor development), 2 (moderate development), 3 (advanced development), 4 (ripe or spawning) or 5 (spent); Note 13	NS	NS	2	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as 1 (minor development), 2 (moderate development), 3 (advanced development), 4 (ripe or spawning) or 5 (spent); Note 13	NS	NS	2	
see number	none, analysis on site	presence of LSCS in guts noted	N/A	N/A	N/A	
set under ice; set duration: 36-72 h	none, analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0025 Cont'd	in gillnet cont'd	ones	LAMP PCHR ARCS LKWT BDWT LSCS INCO CHAR CPLN RNSM NRPK SFCD FHSC ARFL STFL	19	6[1]	monofilament nylon gillnet?	b) Summer Survey; as above?[2]
	in seine haul	ones	ARCS LKWT BDWT RNSM FHSC STFL	NS	see remarks	beach seine	a) 46x2.7 m; with 10 mm mesh size and centre bunt of 5 mm mesh size b) 9.0x1.2 m with 3 mm mesh size
						pole seine	6.0x1.0 m with 3 mm mesh size
	in trawl	ones	none	NS	NS	circular trawl	1.0 m diameter; 0.5 mm mesh bag
	in trawl	ones (#/5 min)	FHSC	NS	15'	bottom trawl	40x40 cm throat; 1.0 mm mesh bag
	on long line	N/A	none	NS	NS	halibut ground line	30 m length; 20 baited single barb hooks (1.5 cm firm barb to shank), each attached by a 40 cm nylon leader
	identification:	N/A	LAMP	3		gillnet	see number
			PCHR	10			
			ARCS	252			
			LKWT	3			
			BDWT	10			
			LSCS	669			
			INCO	10			
			CHAR	1			
			CPLN	3			
			RNSM	27			
			NRPK	1			
			SFCD	2			
			FHSC	36			
			ARFL	5			
			STFL	4			

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
set duration: usually 1.0 h						[1]Standard gangs set at 6 locations to compare relative abundance species distribution and catch-per-unit effort. An additional unknown number of sets, lasting 12-24 h were made in order to determine species composition. [2]For description of standard gear, report refers to a non-existent section; assumed to be the same as used in winter survey.
see remarks	none, analysis on site	counted by ones	NS	NS	2	Seining conducted along nearshore areas to complete species composition information and to sample fish of smaller sizes unlikely to be captured by gillnet. List of species may be incomplete.
depth: surface			N/A	N/A	2	Utilized to sample surface waters for larval fishes.
a) under ice: depth: bottom; tow distance: 120 m; tow velocity: 1.0 m/sec b) open water: depth: bottom; tow duration: 5 min.	10% formalin	counted by ones	NS	NS	2	[1]Does not include stations where no larval fish/ zoobenthos were captured.
depth: bottom; baited with steak bits, whole fish, fish pieces, and isopods	N/A	N/A	N/A	N/A	2	
see number	none, analysis on site; small fish preserved in 10% formalin	McAllister (MS) McPhail and Lindey (1970)	N/A	N/A	N/A	Sample sizes are for open-water gillnet catches only.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0025 Cont'd	Morphometrics: length, total		LAMP	3	NS	see remarks	N/A
	length, fork	mm	PCHR CPLN SFCD	NS 4 2	NS NS NS	gillnet	see number
	# of annuli, otolith	years	CPLN RNSM	1 14	1 NS	see number	see number
	Reproduction: testes, presence/ absence	N/A	CPLN	3	NS	see number	see number
	testes, relative developmental stage	N/A	CPLN	3	NS	see number	see number
	ovaries, presence/ absence	N/A	CPLN	1	1	see number	see number
	ovaries, relative developmental stage	N/A	CPLN	1	1	see number	see number
	Food: gut contents, identification	N/A	CPLN	4	NS	see number	see number
	Movements: # of fish tagged	ones	see remarks	NS	NS	seine	see number
	# of fish recaptured	ones	ARCS	2		NS	NS
75-0043	Number: in gillnet	ones	PCHR ARCS LKWT BDWT LSCS INCO	5	2	gillnet	a) 300x2 m; three - 100 m panels of 38, 63, and 100 mm mesh sizes respectively

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
N/A	none, analysis on site (except for small specimens which were preserved in 10% formalin)	NS	NS	NS	2	Attached to LSCS captured in gillnet. Most length data in report appears to be from 1974.
see number	none, analysis on site (except for small specimens which were preserved in 10% formalin	NS	NS	NS	2	Most length data in report appears to be from 1974.
see number	9:1 solution of alcohol and glycerine	Tesch (1971), Bain (1974), and Mann (1974)	NS	NS	2	Most age data in report appears to be from 1974.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	Most data presented in report from 1974.
see number	none, analysis on site	gonads classified as immature, maturing, maturing green, ripe, or spent; Note 14	NS	NS	2	Most data presented in report from 1974.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	Most data presented in report from 1974.
see number	none, analysis on site	gonads classified as immature, maturing, maturing green, ripe or spent; Note 14	NS	NS	2	Most data presented in report from 1974.
see number	10% formalin	identified to taxonomic order, family, or in some cases species	N/A	N/A	N/A	Most data presented in report from 1974.
see number		Petersen disc or Floy tags inserted below posterior margin of the dorsal fin	NS	NS	N/A	Tagged species included: ARCS, BDWT, LSCS, INCO, CHAR, and FHSC. Sample sizes not given for 1975.
NS			N/A	N/A	N/A	An ARCS tagged at Herschel Is. in 1974 recaptured at Shingle Pt. fall 1975. Another ARCS tagged at King Pt., 30/07/75 recaptured in Peel River, Sept. 1975.
a) surface, mid-water, and bottom sets; set duration 24 h	none, analysis on site	counted by ones	NS	NS	2	Suspected that catches for a) (Kugmallit Bay) were low because captured fish eaten by seals or other fishes.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0043 Cont'd	in gillnet cont'd		RNSM				b) 100x2 m; 38 mm mesh size c) 100x2 m; 100 mm mesh size
			BRBT				
			FHSC				
			ARFL				
			STFL				
	Identification:	N/A	PCHR	32	2	gillnet	see number
			ARCS	305	2		
			LKWT	81	1		
			BDWT	95	1		
			LSCS	49	1		
			INCO	30	1		
			RNSM	15	1		
			BRBT	1	1		
			FHSC	52	1		
			ARFL	4	1		
			STFL	94	1		
	Morphometrics:						
	length, total	cm	BRBT	1	1	gillnet	see number
			FHSC	52	1		
			ARFL	4	1		
			STFL	94	1		
	length, fork	cm	PCHR	32	2	gillnet	see number
			ARCS	305	2		
			LKWT	81	1		
			BDWT	95	1		
			LSCS	49	1		
			INCO	30	1		
			RNSM	15	1		
75-0051	Number						
	in gillnet	ones	PCHR	Note 20	17	gillnet	38,63,89,114, and 140 mm mesh sizes; Note 1
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			NRPK				
			SFCD				
			BRBT				
			ARFL				
			STFL				
	in seine haul	ones	ARCS	12?	6	beach seine	Note 2
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
	in trawl	ones	LAMP	24?	14	otter trawl	Note 5
			RNSM				
			ARCD				
			ELPT				
			ARFL				
			STFL				
	in trawl	ones	LAMP	22	22	Isaacs-Kidd mid-water trawl	Note 10
			ARCD				
			SLEB				
			ASSC				
			FHSC				
			BESC?				
			RBSC				
			ARAF				
			DSSF				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
b) perpendicular to shore; set duration 24 h c) perpendicular to shore; set duration 24 h						
see number	none, analysis on site	NS	NS	NS	N/A	
see number	NS	NS	NS	NS	2	Described as fork lengths in report. Ranges only given. Probably no storage, and analyzed on site.
see number	NS	NS	NS	NS	2	Ranges only given. Probably no storage, and analyzed on site.
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	In addition, BDWT and LSCS captured in trawl of unknown type.
Note 10	10% formalin	counted by ones	NS	NS	2	Species determined from Galbraith and Hunter (1975).

[1] OTHER - *Lumpenus* sp., *Icelus* sp., *Gymnocanthus* sp., and *Liparis* sp.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0051 Cont'd			BTSF				
			FLSF				
			OTHER[1]				
	in bottom dredge	ones	NS	24	24	bottom dredge	NS; Note 3
	caught in plankton net	ones	NS	Note 20	25	plankton net	various sizes; Note 3
	caught by bottom grab	ones	NS	Note 20	24	bottom grab (Ekman, Peterson, and Ponar grabs)	NS; Note 3
	Identification:	N/A	LAMP	1	1	see number	see number
			PCHR	187	9		
			ARCS	245	14		
			LKWT	53	9		
			BDWT	106	11		
			LSCS	877	19		
			INCO	196	14		
			RNSM	194	16		
			NRPK	2	2		
			ARCD	30	6		
			SFCD	7	1		
			BRBT	10	5		
			ELPT	3	2		
			ARFL	56	8		
			STFL	10	5		
	Morphometrics:						
	length, total	mm	LAMP	1	1	see number	see number
			BRBT	10	5		
			ARFL	56	8		
			STFL	10	5		
	length, fork	mm	PCHR	185	9	see number	see number
			ARCS	245	14		
			LKWT	53	9		
			BDWT	106	11		
			LSCS	874	19		
			INCO	196	14		
			RNSM	193	16		
			NRPK	2	2		
			ARCD	30	6		
			SFCD	7	1		
	weight	g	LAMP	1	1	see number	see number
			PCHR	176	9		
			ARCS	204	14		
			LKWT	53	9		
			BDWT	83	10		
			LSCS	498	17		
			INCO	196	14		
			RNSM	186	13		
			NRPK	2	1		
			ARCD	30	6		
			SFCD	7	1		
			BRBT	9	5		
			ARFL	56	8		
			STFL	9	4		
	Age:						
	# of annuli, scale	years	PCHR	24	4	see number	see number
			ARCS	17	4		
			BDWT	23	1		
			LSCS	16	3		
			INCO	6	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	2	
NS	10% formalin	counted by ones	NS	NS	N/A	
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none; analysis on site, or 10% formalin Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	annuli counted with aid of a microscope projector	NS	NS	2	Unaged scale samples may exist for PCHR, ARCS, LSCS, and INCO. See below.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0051 Cont'd	# of annuli, otolith	years	PCHR	61	9	see number	see number
			ARCS	139	12		
			LKWT	31	5		
			BDWT	45	10		
			LSCS	394	11		
			INCO	118	11		
			RNSM	137	13		
			ARCD	26	6		
			SFCD	5	1		
			BRBT	2	2		
			ELPT	1	1		
			ARFL	21	6		
			STFL	7	3		
	Reproduction: testes, presence/ absence	N/A	LAMP	1	1	see number	see number
			PCHR	96	6		
			ARCS	99	13		
			LKWT	24	5		
			BDWT	28	7		
			LSCS	274	14		
			INCO	97	10		
			RNSM	115	10		
			ARCD	19	5		
			SFCD	2	1		
			BRBT	3	3		
			ARFL	38	7		
			STFL	3	2		
	testes, relative developmental stage	N/A	LAMP	1	1	see number	see number
			PCHR	4	1		
			ARCS	10	6		
			LKWT	1	1		
			BDWT	7	5		
			LSCS	67	9		
			INCO	50	8		
			RNSM	9	6		
			ARCD	3	2		
			BRBT	3	3		
			ARFL	5	3		
	testes, size	mm	PCHR	76	6	see number	see number
			ARCS	72	13		
			LKWT	23	5		
			BDWT	19	3		
			LSCS	219	11		
			INCO	48	7		
			RNSM	73	6		
			ARCD	15	4		
			SFCD	2	1		
			BRBT	1	1		
			STFL	3	2		
	testes, weight	g	PCHR	34	4	see number	see number
			ARCS	39	11		
			LKWT	11	3		
			BDWT	19	3		
			LSCS	116	9		
			INCO	18	4		
			RNSM	48	4		
	ovaries, presence/ absence	N/A	PCHR	79	8	see number	see number
			ARCS	84	10		
			LKWT	23	6		
			BDWT	6	5		
			LSCS	210	12		
			INCO	75	9		
			RNSM	59	8		
			ARCD	9	3		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	Note 18	gadid otoliths split to reveal annuli; salmonid otoliths used 'as is'.	NS	NS	2	Unaged otolith samples may exist for PCHR, ARCS, LKWT, LSCS, RNSM, SFCD, ARFL, and STFL. In addition, 1 PCHR, 2 ARCS, 6 LKWT, 2 BDWT, 9 LSCS, 10 INCO, 3 RNSM, 1 NRPK, 4 ARCD, 1 BRBT, 1 ELPT, and 9 ARFL were aged but no method given.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	NS
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
75-0051 Cont'd	ovaries, presence/ absence cont'd		SFCD	5	1		
			ARFL	16	4		
			STFL	5	2		
	ovaries, relative developmental stage	N/A	PCHR	7	4	see number	see number
			ARCS	6	3		
			LKWT	8	3		
			BDWT	5	4		
			LSCS	24	7		
			INCO	33	7		
			RNSM	12	6		
			ARCD	6	2		
			ARFL	5	3		
	ovaries, weight	g	PCHR	22	5	see number	see number
			ARCS	36	8		
			LKWT	9	2		
			BDWT	3	3		
			LSCS	152	8		
			INCO	31	6		
			RNSM	13	5		
			SFCD	1	1		
	egg diameter	mm	PCHR	63	8	see number	see number
			ARCS	65	10		
			LKWT	16	6		
			BDWT	4	3		
			LSCS	189	10		
			INCO	46	8		
			RNSM	25	6		
			ARCD	1	1		
			SFCD	5	1		
			STFL	5	2		
	Food: gut contents, identification	N/A	PCHR	164	5	see number	see number
			ARCS	185	12		
			LKWT	13	3		
			BDWT	30	4		
			LSCS	481	10		
			INCO	140	10		
			RNSM	115	5		
			NRPK	1	1		
			BRBT	6	2		
			ARFL	4	1		
	Parasitology: presence/absence, by organ	N/A	ARCS	5	3	see number	see number
			LSCS	2	1		
			INCO	4	1		
			BRBT	1	1		
76-0003	Number: in gillnet	ones	PCHR	8	3	gillnet	76.2x0.9 m
			CHAR				
			FHSC				
	in seine haul	ones	ARCS	1	1	beach seine	30.5 m long
			FHSC				
			ARFL				
	identification	N/A	PCHR	3	1	see number	see number
			ARCS	12	1		
			CHAR	1	1		
			FHSC	6	2		
			ARFL	3	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
bottom, mid-water and surface samples	none, analysis on site	counted by ones	NS	NS	2	
	none, analysis on site	counted by ones	NS	NS	2	
see number	none, analysis on site?	NS	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0003 Cont'd	Morphometrics:						
	length, fork	mm	PCHR	3	1	see number	see number
			ARCS	12	1		
			CHAR	1	1		
	length, total	mm	FHSC	6	2	see number	see number
			ARFL	3	1		
76-0004	Number:						
	in seine haul	ones (#/ haul)	PCHR	7	7	beach seine	30.5x2.4 m; 10 mm mesh size (stretched mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			FHSC				
			NSSB				
			ARFL				
			OTHER				
	Identification	N/A	PCHR	20	2	see number	see number
			ARCS	46	4		
			LKWT	1	1		
			BDWT	1	1		
			LSCS	426	4		
			INCO	1	1		
			RNSM	10	3		
			SFCD	3	1		
			FHSC	40	4		
			NSSB	1	1		
			ARFL	11	4		
			OTHER[1]	1	1		
	Morphometrics:						
	length, total	mm	FHSC	40	4	beach seine	see number
			NSSB	1	1		
			ARFL	11	4		
	length, fork	mm	PCHR	20	2	beach seine	see number
			ARCS	46	4		
			LKWT	1	1		
			BDWT	1	1		
			LSCS	426	4		
			INCO	1	1		
			RNSM	10	3		
			SFCD	3	1		
	weight	g	ARCS	1	1	beach seine	see number
			LSCS	2	1		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	1	1	beach seine	see number
			LSCS	4	1		
	testes, relative developmental stage	N/A	LSCS	1	1	beach seine	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site?	NS	NS	NS	2	
see number	none, analysis on site?	NS	NS	NS	2	
boat used to draw net from shore	none, analysis on site	counted by ones	NS	NS	2	
see number	none, analysis on site	McPhail and Lindsey (1970)?	N/A	N/A	N/A	[1]OTHER - unidentified coregonids.
see number	none, analysis on site	NS	NS	NS	2	Referred to as fork length in report.
see number	none, analysis on site	tip of snout to fork in tail	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	Information on this and all the following measurements obtained from record sheets on file at DFO (Freshwater Institute).
see number	none; analysis on site	gross examination	N/A	N/A	N/A	
see number	none; analysis on site	gonads of mature fish classified as: ripe, spawned-out, green, or non-spawners; Note 15	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0004 Cont'd	testes, size	mm	PCHR	1	1	beach seine	see number
			LSCS	4	1		
	ovaries, presence/ absence	N/A	PCHR	1	1	beach seine	see number
			ARCS	1	1		
			LSCS	4	NS		
	ovaries, relative developmental stage	N/A	PCHR	1	1	beach seine	see number
			ARCS	1	1		
			LSCS	3	NS		
	ovaries, size	mm	PCHR	1	1	beach seine	see number
			ARCS	1	1		
			LSCS	3	NS		
	egg diameter	mm	PCHR	1	1	beach seine	see number
	Food:						
	gut contents, % full	%	PCHR	2	NS	beach seine	see number
			ARCS	1	1		
			LSCS	8	NS		
	gut contents, identification	N/A	PCHR	2	NS	beach seine	see number
			ARCS	1	1		
			LSCS	8	NS		
76-0005	Number:						
	in gillnet	ones (#/h)	PCHR	5	2	gillnet	77.6x2.4 m; five - 15.5 m panels of 25, 50,75,100, and 125 mm mesh sizes respectively (stretched mesh measure)
			ARCS				
			LSCS				
			FHSC				
	identification	N/A	PCHR	8	2	gillnet	see number
			ARCS	2	1		
			LSCS	1	1		
			FHSC	9	2		
	Morphometrics:						
	length, total	mm	FHSC	9	2	gillnet	see number
	length, fork	mm	PCHR	7	2	gillnet	see number
			ARCS	2	1		
	weight	g	PCHR	7	2	gillnet	see number
			ARCS	2	1		
			FHSC	9	2		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	4	2	gillnet	see number
			FHSC	1	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	width measured	NS	NS	2	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads of mature fish classified as: ripe, spawned-out, green, or non-spawners; Note 15	NS	NS	2	
see number	none, analysis on site	width measured	NS	NS	2	
see number	none, analysis on site	10 eggs from green females lined up and the combined length measured and average diameter calculated	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	N/A	
see number	none, analysis on site	identified to taxonomic order	N/A	N/A	N/A	
surface and bottom samples; set duration: 21.5-43.0 h	none, analysis on site?	counted by ones	NS	NS		Mid-water sets were made according to report, but no data could be found.
see number	none, analysis on site?	NS	N/A	N/A	N/A	
see number	none, analysis on site?	NS	NS	NS	2	Referred to as fork length in report.
see number	none, analysis on site?	tip of snout to fork in tail	NS	NS	2	
see number	none, analysis on site?	NS	NS	NS	2	Information on this and all the following measurements obtained from record sheets on file at DFO (Freshwater Institute).
see number	none, analysis on site?	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0005 Cont'd	testes, relative developmental stage	N/A	PCHR	4	2	gillnet	see number
	testes, size	mm	PCHR	3	2	gillnet	see number
	testes, weight	g	PCHR	1	1	gillnet	see number
	ovaries, presence/ absence	N/A	PCHR	3	1	gillnet	see number
			ARCS	2	1		
	ovaries, relative developmental stage	N/A	PCHR	2	1	gillnet	see number
			ARCS	2	1		
	ovaries, size	mm	ARCS	2	1	gillnet	see number
	ovaries, weight	g	ARCS	2	1	gillnet	see number
	egg diameter	mm	ARCS	1	1	gillnet	see number
	Food:						
	gut contents, % full		PCHR	5	1	gillnet	see number
			ARCS	2	1		
			FHSC	1	1		
	gut contents, identification		PCHR	5	1	gillnet	see number
			ARCS	2	1		
			FHSC	1	1		
76-0020	Number:						
	in trawl	ones	PCHR	54	31	otter trawl	Note 5
			ARCS				
			LSCS				
			RNSM				
			TDCD				
			ARCD				
			SFCD				
			BRBT				
			FHDR				
			ELPT				
			PAEP				
			PREP				
			STEB				
			NRSL				
			ASSC				
			STSC				
			RBSC				
			KPSF				
			ARFL				
			STFL				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site?	gonads of mature fish classified as ripe, spawned-out, green, or non-spawners; Note 15	NS	NS	2	
see number	none, analysis on site?	width measured	NS	NS	2	
see number	none, analysis on site?	NS	NS	NS	2	
see number	none, analysis on site?	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads of mature fish classified as: ripe, spawned-out, green, or non-spawners; Note 15	NS	NS	2	
see number	none, analysis on site?	width measured	NS	NS	2	
see number	none, analysis on site?	NS	NS	NS	2	
see number	none, analysis on site?	10 eggs from green females lined up and the combined length measured and average diameter calculated	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	N/A	
see number	none, analysis on site	identified to taxonomic order	N/A	N/A	N/A	
Note 5	none, analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0020 Cont'd	Identification	N/A	PCHR	1	1	otter trawl	see number
			ARCS	1	1		
			LSCS	4	4		
			RNSM	420	12		
			TDCD	2	1		
			ARCD	497	16		
			SFCD	16	2		
			BRBT	32	10		
			FHDR	8	6		
			ELPT	11	6		
			PAEP	34	12		
			PREP	29	7		
			STEB	1	1		
			NRSL	1	1		
			ASSC	798	16		
			STSC	4	3		
			RBSC	13	6		
			KPSF	21	4		
			ARFL	25	7		
			STFL	6	6		
	Morphometrics: length, total	mm	BRBT	32	10	otter trawl	see number
			FHDR	8	6		
			ELPT	11	6		
			PAEP	34	12		
			PREP	29	7		
			STEB	1	1		
			ASSC	798	16		
			STSC	4	3		
			RBSC	13	6		
			KPSF	21	4		
			ARFL	25	7		
			STFL	6	6		
	length, fork	mm	PCHR	1	1	otter trawl	see number
			ARCS	1	1		
			LSCS	4	4		
			RNSM	420	12		
			TDCD	2	1		
			ARCD	497	16		
			SFCD	16	2		
			NRSL	1	1		
	weight	g	PCHR	1	1	otter trawl	see number
			LSCS	4	4		
			RNSM	420	12		
			TDCD	2	1		
			ARCD	497	16		
			SFCD	16	2		
			BRBT	32	10		
			FHDR	8	6		
			ELPT	11	6		
			PAEP	34	12		
			PREP	24	6		
			STEB	1	1		
			NRSL	1	1		
			ASSC	798	16		
			STSC	4	3		
			RBSC	13	6		
			KPSF	21	4		
			ARFL	25	7		
			STFL	6	6		
	Age: # of annuli[1]	years	PCHR	1	1	otter trawl	see number
			LSCS	4	4		
			RNSM	397	11		
			TDCD	2	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g, to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g	NS	NS	2	
see number	Note 18	scales: annuli counted with aid of a microscpe projector; oto-	NS	NS	2	[1]One BRBT and 5 STFL were aged from otoliths. No information on methodology of remaining

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0020 Cont'd	# of annuli cont'd		ARCD	184	16		
			SFCD	15	2		
			BRBT	13	7		
			FHDR	4	4		
			ELPT	11	6		
			PAEP	31	11		
			PREP	23	6		
			ASSC	311	15		
			STSC	1	1		
			RBSC	7	5		
			KPSF	2	1		
			ARFL	25	7		
			STFL	5	5		
	Reproduction:						
	testes, presence/ absence	N/A	LSCS	3	3	otter trawl	see number
			RNSM	142	11		
			ARCD	122	13		
			SFCD	5	2		
			BRBT	10	5		
			FHDR	1	1		
			ELPT	3	2		
			PAEP	5	2		
			PREP	9	4		
			ASSC	269	11		
			STSC	1	1		
			RBSC	6	5		
			KPSF	11	4		
			ARFL	10	4		
			STFL	2	2		
	testes, relative developmental stage	N/A	RNSM	2	1	otter trawl	see number
			PAEP	3	1		
			ASSC	1	1		
	testes, size	mm	LSCS	2	2	otter trawl	see number
			RNSM	89	10		
			ARCD	62	8		
			BRBT	7	3		
			FHDR	1	1		
			ELPT	3	2		
			PAEP	4	1		
			PREP	7	4		
			ASSC	11	5		
			RBSC	4	4		
			KPSF	11	4		
			ARFL	8	3		
	testes, weight	g	RNSM	4	2	otter trawl	see number
			ARCD	25	1		
	ovaries, presence/ absence	N/A	PCHR	1	1	otter trawl	see number
			RNSM	134	11		
			TDCD	2	1		
			ARCD	363	15		
			SFCD	7	1		
			BRBT	7	6		
			FHDR	3	3		
			ELPT	7	5		
			PAEP	20	8		
			PREP	13	5		
			NRSL	1	1		
			ASSC	432	15		
			STSC	1	1		
			RBSC	6	5		
			KPSF	9	3		
			ARFL	15	6		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
		liths: gadid otoliths split to reveal annuli and salmonid otoliths used 'as is'.				samples.
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with callipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0020 Cont'd	ovaries, relative developmental stage	N/A	RNSM	1	1	otter trawl	see number
			TDCD	1	1		
			ARCD	16	2		
			SFCD	7	1		
			FHDR	1	1		
			ELPT	2	1		
			PAEP	8	1		
			PREP	3	1		
			NRSL	1	1		
			ASSC	8	5		
			RBSC	1	1		
			ARFL	6	2		
	ovaries, weight	g	RNSM	1	1	otter trawl	see number
			ARCD	8	1		
			SFCD	1	1		
			ASSC	1	1		
			RBSC	2	2		
	egg diameter	mm	RNSM	86	11	otter trawl	see number
			TDCD	2	1		
			ARCD	305	12		
			SFCD	5	1		
			BRBT	1	1		
			FHDR	2	2		
			ELPT	7	5		
			PAEP	11	6		
			PREP	13	5		
			NRSL	1	1		
			ASSC	163	14		
			RBSC	4	4		
			KPSF	8	3		
			ARFL	13	6		
			STFL	3	3		
	Food: gut contents, identification	N/A	LSCS	1	1	otter trawl	see number
			RNSM	23	4		
			TDCD	2	1		
			ARCD	177	16		
			SFCD	13	2		
			BRBT	1	1		
			FHDR	8	6		
			ELPT	4	2		
			PAEP	27	10		
			PREP	6	2		
			NRSL	1	1		
			ASSC	682	15		
			STSC	2	1		
			RBSC	12	6		
			KPSF	6	1		
			ARFL	10	3		
	Parasitology: presence/absence, by organ	N/A	TDCD	1	1	otter trawl	see number
76-0036	Number: in gillnet	ones (#/h x 1000)	PCHR	12	7	gillnet	45.6 m long
			LKWT				
			BDWT				
			LSCS				
			RDWT				
			LKTR				
			ARGR				
			NRPK				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	
set duration: 14.75-24.5 h						Note - Copy of report not available except for tables of catch results. No information on methodology.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
76-0036 Cont'd	in gillnet		BRBT				
			FHSC				
			STFL				
	in seine haul	ones	PCHR	7	6	beach seine	a) 30.5 m long b) 2.7 m long
			LSCS				
			ARGR				
			FHSC				
			NSSB				
			OTHER[1]				
	Identification	N/A	PCHR	176	6	see number	see number
			LKWT	35	4		
			BDWT	2	2		
			LSCS	467	8		
			RDWT	1	1		
			LKTR	46	6		
			ARGR	776	8		
			NRPK	4	1		
			BRBT	1	1		
			FHSC	250	8		
			STFL	1	1		
			OTHER[1]				
77-0002	Number:						
	in gillnet	ones (#/h)	PCHR	24	12	gillnet	monofilament nylon; 45x2.4 m; six-7.5 m panels of 25, 51,114,63,38 and 89 mm mesh sizes respectively (stretched mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			ARCD				
			SFCD				
			FHSC				
			ARFL				
			STFL				
	in seine haul	ones (#/m^3)	PCHR	24	12	pole seine	4x1.2 m; fine-mesh nylon mesh size
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			RNSM				
			SFCD				
			STEB				
			STSL				
			FHSC				
			NSSB				
			ARFL				
	in trawl	ones	ASSC	24	12	epibenthic trawl	1 m; equipped with Tsuruni-Seiki (Model 10-1971) flow meter
			FHSC				
			NSSB				
			ARFL				
	caught by plankton net	ones (#/1000 m^3)	PCHR	24	12	Faber net (modified)	0.6 m diameter; 0.392 mm mesh size; equipped with Tsuruni-Seiki (Model 10-1971) flow meter
			RNSM				
			STSL				
	Identification	N/A	PCHR	23	7	see number	see number
			ARCS	386	12		
			LKWT	18	6		
			BDWT	44	8		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
					2	[1]See identification
					N/A	[1]*Cottus cognatus* (n=1) and unidentified coregonids (n=75).
set duration: 0.5-24 h	none, analysis on site	counted by ones	NS	NS	2	
standard 50 m distance of shoreline covered/seine haul	none, analysis on site	counted by ones (see remarks)[1]	NS	NS	2	[1]In some instances, the number of FHSC appears to have been estimated. Report presents CPUE as $\#/m^2$ but when calculations are checked works out to $\#/m^3$.
tow depth: bottom; tow duration: 3-4 min.	5% formalin? (see remarks)	counted by ones	NS	NS	2	Zoobenthos captured by this capture method were preserved in 5% formalin; fishes captured may have been treated similarly.
horizontal tows; tow depth-surface; (198-264 m^3 water sampled/tow)	5% formalin? (see remarks)	counted by ones	NS	NS	2	Zooplankton captured by this capture method were preserved in 5% formalin; fishes captured may have been treated similarly.
see number	none, analysis on site; (larval fishes may have been preserved	taxonomic keys not referred to in methods section of report. However,	N/A	N/A	N/A	SLEB (n=2) and ARCO (n=2) were also identified from stomach contents.

Data Table 2 Continued

Data Set No.	Parameter	Measurement Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0002 Cont'd	Identification cont'd		LSCS	110	9		
			INCO	27	6		
			RNSM	98	8		
			ARCD	1	1		
			SFCD	24	7		
			STEB	1	1		
			STSL	15	3		
			ASSC	1	1		
			FHSC	1930	12		
			NSSB	7	3		
			ARFL	28	10		
			STFL	6	4		
	Morphometrics:						
	length, total	mm	ASSC	1	1	see number	see number
			FHSC	300	NS		
			ARFL	27	NS		
			STFL	6	NS		
	length, fork		PCHR	22	NS	see number	see number
			ARCS	320	NS		
			LKWT	18	NS		
			BDWT	38	NS		
			LSCS	96	NS		
			INCO	26	NS		
			RNSM	97	NS		
			ARCD	1	1		
			SFCD	23	NS		
			STSL	15	NS		
	weight[1]	g	NS	NS	NS	see number	see number
	Age:						
	# of annuli, otolith?	years	PCHR	15	NS	see number	see number
			ARCS	221	NS		
			LKWT	14	NS		
			BDWT	38	NS		
			LSCS	88	NS		
			INCO	26	NS		
			RNSM	8	NS		
			ARCD	1	1		
			SFCD	22	NS		
			FHSC	105	NS		
			ARFL	22	NS		
			STFL	6	NS		
	Reproduction						
	testes, presence/ absence	N/A	ARCS	133	NS	gillnet	see number
			LKWT	7	NS		
			BDWT	31	NS		
			LSCS	38	NS		
			INCO	13	NS		
			RNSM	6	NS		
			SFCD	20	NS		
			FHSC	41	NS		
			ARFL	14	NS		
	testes, relative developmental stage	N/A	ARCS	133	NS	gillnet	see number
			LKWT	7	NS		
			BDWT	31	NS		
			LSCS	38	NS		
			INCO	13	NS		
			RNSM	6	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
	in 5% formalin)	Andriyashev (1954) and McAllister (1962), are referred to in descriptions of life histories of some species				
see number	none, analysis on site (larval fishes may have been preserved in 5% formalin)	to nearest mm	NS	NS	2	Type of length measurement not specifically mentioned for ASSC, ARFL, or STFL in report. It has been assumed that total length was measured.
see number	none, analysis on site (larval fishes may have been preserved in 5% formalin)	to nearest mm	NS	NS	2	Type of length measurement not specifically mentioned for PCHR, INCO, RNSM, ARCD, SFCD or STSL in report. It has been assumed that fork length was measured.
see number	none, analysis on site	to nearest 0.1 g	NS	NS	N/A	[1]Report states that each fish was weighed in the field laboratory; however, no data is presented.
see number	glycerine	FHSC: otolith ground flat on jeweller's lapidary wheel and candled (burned?)	NS	NS	2	Methods section of report states that otoliths were placed in glycerine - but no mention of which species aged utilizing this structure. The use of otoliths for BDWT and FHSC referred to in Results under individual species life history sections.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as immature, spawners, or non-spawners; method of McCart et al. (1972) and Craig	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0002 Cont'd	testes, relative developmental stage cont'd		SFCD	20	NS		
			FHSC	41	NS		
			ARFL	14	NS		
	ovaries, presence/ absence	N/A	ARCS	79	NS	gillnet	see number
			LKWT	7	NS		
			BDWT	5	NS		
			LSCS	37	NS		
			INCO	11	NS		
			RNSM	2	NS		
			SFCD	2	NS		
			FHSC	36	NS		
			ARFL	6	NS		
	ovaries, relative developmental stage	N/A	ARCS	79	NS	gillnet	see number
			LKWT	7	NS		
			BDWT	5	NS		
			LSCS	37	NS		
			INCO	11	NS		
			RNSM	2	NS		
			SFCD	2	NS		
			FHSC	36	NS		
			ARFL	6	NS		
	ovaries, weight	NS	LKWT	2	NS	gillnet	see number
	egg diameter	mm	LKWT	2	NS	gillnet	see number
	Food: gut contents, identification	N/A	PCHR	3	NS	gillnet	see number
			ARCS	246	NS		
			LKWT	14	NS		
			BDWT	36	NS		
			LSCS	80	NS		
			INCO	26	NS		
			RNSM	2	NS		
			SFCD	22	NS		
			FHSC	100	NS		
			ARFL	22	NS		
			STFL	2	NS		
77-0009	Number: in gillnet	ones	ARCS	32	8	gillnet	monofilament nylon; 75 m x 2.5 m; five - 15 m panels of 25,50,75,100, and 125 mm mesh sizes respectively (stretched mesh measure)
			LSCS				
			CHAR				
			ARCD				
			FHSC				
			OTHER				
	in trawl	ones	OTHER	30	16	trawl	1.0 m diameter net; conical-shaped; 5 m long; 571 um mesh size

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
		and Mann (1974); Note 12				
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as immature, spawners, or non-spawners; method of McCart et al. (1972) and Craig and Mann (1974); Note 12	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	N/A	Results section of report refers to gonad weights exceeding 10% of body weight.
see number	none, analysis on site	to nearest 0.1 mm by calculating the mean diameter of 10 eggs of the largest size class lined up in a row	NS	NS	2	
see number	none, analysis on site	items identified to taxonomic class or order	N/A	N/A	N/A	
pair of gangs set at each station - one at the surface and one at the bottom; set duration: 21 h	none, analysis on site	counted by ones	NS	NS	2	One additional station was sampled but no data was presented (Station 112-2).
horizontal tows; towed just below the surface from a zodiac; tow duration of 2 min; tow velocity of 0.4 m/s	5% buffered formalin	NS	NS	NS	2	This gear type was described as a conical shaped trawl in report.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0009 Cont'd	caught by plankton net	ones	OTHER	93	16	plankton net	0.50 m diameter net; 156 um mesh size
	identification	N/A	ARCS	21	4	see number	see number
			LSCS	1	1		
			CHAR	1	1		
			ARCD	1	1		
			FHSC	1	1		
			OTHER[1]				
	Morphometrics:						
	length, total	mm	FHSC	1	1	gillnet	see number
	length, fork	mm	ARCS	21	4	gillnet	see number
			LSCS	1	1		
			CHAR	1	1		
			ARCD	1	1		
			OTHER[1]	1	1		
	weight	g	ARCS	21	4	gillnet	see number
			LSCS	1	1		
			CHAR	1	1		
			ARCD	1	1		
			FHSC	1	1		
			OTHER[1]	1	1		
	Age:[1]						
	# of annuli, scale	years	see remarks	NS	NS	gillnet	see number
	# of annuli, otolith	years	see remarks	NS	NS	gillnet	see number
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	10	4	gillnet	see number
			FHSC	1	1		
	testes, relative developmental stage	N/A	ARCS	10	4	gillnet	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
vertical tows, from bottom to the surface	5% buffered formalin	NS	NS	NS	2	
see number	larval fishes preserved in 5% buffered formalin, others analyzed on site	NS; however, McAllister (1962) is referred to in discussion of species composition	N/A	N/A	N/A	[1]One liparid was captured by gillnet - described as bartail snailfish (*Liparis herschelinus*) in one table and later as the ringtail snailfish (*L. rutteri*). Twenty-five larval fishes were captured by plankton net (according to appendices) - 5 unidentified, 3 pleuronectidae, 6 *L. rutteri*, and 11 Cryptacanthodidae - one unidentified and 10 *Delolepis gigantea*. Discrepancies exist in number and species caught between sections of the report. Neither *L. rutteri* or any cryptacanthodids are known from Arctic Canada (Legendre et al. 1975).
see number	none, analysis on site	NS	NS	NS	2	Report states that fork length was measured on specimens.
see number	none, analysis on site	NS	NS	NS	2	[1]*L. rutteri*
see number	none, analysis on site	wet weight	NS	NS	2	[1]*L. rutteri*
see number	scale envelopes	NS	NS	NS	2	[1]Scales or otoliths were collected for age determinations but it is not stated what was taken from each species. However, all specimens except for the liparid were aged.
see number	ethanol: glycerine solution (9:1)	NS	NS	NS	2	
see number	none, analysis on site	NS	N/A	N/A	N/A	
see number	none, analysis on site	mature gonads classified as: green, ripening, or spent categories	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0009 Cont'd	ovaries, presence/ absence	N/A	ARCS	7	2	gillnet	see number
			LSCS	1	1		
			CHAR	1	1		
	ovaries, relative developmental stage	N/A	ARCS	5	2	gillnet	see number
			LSCS	1	1		
	Food:						
	gut contents, identification	N/A	NS	13	NS	gillnet	see number
77-0020	Number:						
	in gillnet	ones	PCHR	15	15	gillnet	monofilament nylon; four - 2.4 m panels of 37.5,50,62.5 and 75 mm mesh sizes respectively
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			FHSC				
			OTHER[1]				
	in seine haul	ones	FHSC	1	1	beach seine	NS
	Identification	N/A	PCHR	1	1	see number	see number
			ARCS	49	13		
			LKWT	69	15		
			BDWT	40	10		
			LSCS	49	12		
			INCO	11	9		
			RNSM	4	4		
			FHSC	5	3		
			OTHER[1]	2	2		
	Morphometrics:						
	length, total	cm	PCHR	1	1	gillnet	see number
			ARCS	49	13		
			LKWT	68	15		
			BDWT	40	10		
			LSCS	49	12		
			INCO	11	9		
			RNSM	4	4		
			FHSC	2	2		
			OTHER	2	2		
	weight	g	PCHR	1	1	gillnet	see number
			ARCS	49	13		
			LKWT	68	15		
			BDWT	39	10		
			LSCS	48	12		
			INCO	11	9		
			RNSM	4	4		
			FHSC	2	2		
			OTHER	2	2		
	Age:						
	# of annuli, scale	years	PCHR	1	1	gillnet	see number
			ARCS	49	13		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	NS	N/A	N/A	N/A	
see number	none, analysis on site	mature gonads classified as: green, ripening, or spent categories	NS	NS	2	
see number	stomachs in 10% buffered formalin	identified to class, subclass, order, or sometimes to species	N/A	N/A	N/A	13 fish stomachs were examined, but species not provided.
depth: 0-1 m	none, analysis on site	counted by ones	NS	NS	2	[1]See identification
NS	none, analysis on site	counted by ones	NS	NS	2	Several larval fishes were also captured. A larval fish trap was also utilized for sampling.
see number	none, analysis on site	taxonomic keys utilized: McAllister (1960), McAllister (1962), McPhail and Lindsey (1970)	N/A	N/A	N/A	[1]*Arctogadus pearyi* Nielsen and Jensen (1967) consider this conspecific with *A. borisovi* (TOCD).
see number	none, analysis on site	NS	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	
see number	NS	NS	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0020 Cont'd	# of annuli, scale cont'd		LKWT	69	15		
			BDWT	40	10		
			LSCS	48	12		
			INCO	11	9		
			RNSM	2	2		
	Reproduction:						
	testes, presence/ absence	N/A	ARCS	7	2	gillnet	see number
			BDWT	3	1		
			LSCS	2	2		
			RNSM	1	1		
	ovaries, presence/ absence	N/A	ARCS	11	5	gillnet	see number
			LKWT	4	4		
			BDWT	5	3		
			LSCS	6	4		
			INCO	1	1		
			RNSM	1	1		
	Food:						
	gut contents, number of individuals	ones	ARCS	13	5	gillnet	see number
			LKWT	28	6		
			BDWT	16	4		
			LSCS	18	5		
			INCO	3	3		
			RNSM	1	1		
	gut contents, identification	N/A	ARCS	13	5	gillnet	see number
77-0035	Number:						
	in gillnet	ones	PCHR	157	9	gillnet	38 and 63 mm mesh sizes; Note 1
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			ARFL				
	in seine haul	ones	ARCS	307	26	beach seine	Note 2
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			STFL				
			ARFL				
	in trawl	ones	LAMP	68	48	otter trawl	Note 5
			RNSM				
			SFCD				
			FHDR				
			ELPT				
			SDEP				
			PAEP				
			PREP				
			TSEP				
			AHEP				
			ASSC				
			THSC				
			STSC				
			ARSC				
			BESC				
			RBSC				
			ARAF				
			ATPH				
			GLSF				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	NS	number of organisms of each taxonomic group determined for each fish sampled	NS	NS	2	
see number	NS	identified to species when possible	N/A	N/A	N/A	
Note 1	none, analysis on site	counted by ones	NS	NS	2	
Note 2	none, analysis on site	counted by ones	NS	NS	2	
Note 5	none, analysis on site	counted by ones	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0035 Cont'd	in trawl cont'd		KPSF ARFL STFL				
	in trawl	ones	NS	4	2	small otter trawl	Note 5
	in trawl	ones	NS	10	9	stramin trawl	Note 6
	in trawl	ones	STEB BESC ARAF GLSF	5	5	Isaacs-Kidd mid-water trawl	Note 10
	caught by hand	ones	NS	1	1	hand	NS; Note 3
	Identification	N/A	LAMP	3	3	see number	see number
			PCHR	117	7		
			ARCS	224	11		
			LKWT	8	3		
			BDWT	9	3		
			LSCS	77	6		
			INCO	1	1		
			RNSM	79	3		
			SFCD	38	4		
			FHDR	47	4		
			ELPT	30	13		
			SDEP	3	3		
			PAEP	11	3		
			PREP	40	6		
			TSEP	10	2		
			AHEP	26	1		
			STEB	1	1		
			ASSC	473	26		
			THSC	1	1		
			STSC	12	4		
			ARSC	11	3		
			BESC	21	3		
			RBSC	104	14		
			ARAF	77	7		
			ATPH	2	1		
			GLSF	39	4		
			KPSF	17	4		
			ARFL	215	18		
			STFL	3	2		
	Morphometrics:						
	length, total	mm	LAMP	3	3	see number	see number
			FHDR	47	4		
			ELPT	30	13		
			SDEP	3	3		
			PAEP	11	3		
			PREP	40	6		
			TSEP	10	2		
			AHEP	26	1		
			STEB	1	1		
			ASSC	473	26		
			THSC	1	1		
			STSC	12	4		
			ARSC	11	3		
			BESC	21	3		
			RBSC	104	14		
			ARAF	77	3		
			ATPH	2	1		
			GLSF	39	4		
			KPSF	17	4		
			ARFL	215	18		
			STFL	3	2		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
Note 5	none, analysis on site	counted by ones	NS	NS	2	
Note 6	none, analysis on site	counted by ones	NS	NS	2	
Note 10	10% formalin	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	N/A	
see number	none, analysis on site, or 10% formalin; mid-water trawl samples in 10% formalin	Note 4	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	

Data Table 2 Continued

Data Set No.	Parameter	Measurement Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0035 Cont'd	length, fork	mm	PCHR	117	7	see number	see number
			ARCS	224	11		
			LKWT	8	3		
			BDWT	9	3		
			LSCS	77	6		
			INCO	1	1		
			RNSM	79	3		
			SFCD	38	4		
	weight	g	LAMP	2	2	see number	see number
			PCHR	1	1		
			ARCS	43	4		
			LKWT	4	1		
			BDWT	5	1		
			LSCS	27	3		
			RNSM	79	3		
			SFCD	34	3		
			FHDR	47	4		
			ELPT	27	13		
			SDEP	3	3		
			PAEP	11	3		
			PREP	40	6		
			TSEP	10	2		
			AHEP	26	1		
			STEB	1	1		
			ASSC	471	26		
			THSC	1	1		
			STSC	12	4		
			ARSC	10	3		
			BESC	21	3		
			RBSC	104	14		
			ARAF	77	7		
			ATPH	2	1		
			GLSF	39	4		
			KPSF	17	4		
			ARFL	166	17		
			STFL	3	2		
	Age:						
	# of annuli, scale	years	ARCS	28	3	see number	see number
			LKWT	5	1		
	# of annuli, otolith	years	PCHR	13	2	see number	see number
			ARCS	60	3		
			LKWT	6	2		
			BDWT	2	1		
			RNSM	20	1		
			SFCD	32	4		
			FHDR	37	4		
			ELPT	21	12		
			PAEP	5	2		
			PREP	33	5		
			ASSC	76	4		
			STSC	7	1		
			ARSC	7	3		
			RBSC	74	9		
			ARAF	9	2		
			KPSF	12	3		
			ARFL	38	3		
			STFL	3	2		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	to nearest mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	to nearest 0.1 g for fish <25 g; to nearest 2 g for fish between 25 and 250 g; to nearest 10 g for fish >250 g.	NS	NS	2	
see number	Note 18	annuli counted with aid of a microscope projector	NS	NS	2	
see number	Note 18	gadid otoliths split to reveal annuli and salmonid otoliths used 'as is'	NS	NS	2	Unaged otolith samples may exist for LKWT, INCO, RNSM, PAEP, PREP, ASSC (n=120), ARSC, RBSC, KPSF. In addition, 28 PCHR, 2 ARCS, 2 SFCD, and 127 ARFL were aged but no method given.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0035 Cont'd	Reproduction: testes, presence/ absence	N/A	PCHR	61	6	see number	see number
			ARCS	72	5		
			LKWT	7	3		
			BDWT	2	2		
			LSCS	16	2		
			INCO	1	1		
			RNSM	10	1		
			SFCD	14	4		
			FHDR	26	1		
			ELPT	8	6		
			PAEP	4	2		
			PREP	12	5		
			ASSC	68	3		
			STSC	6	1		
			ARSC	2	2		
			BESC	8	2		
			RBSC	24	4		
			ARAF	1	1		
			KPSF	7	3		
			ARFL	67	13		
	testes, relative developmental stage	N/A	SFCD	3	2	see number	see number
			PREP	7	2		
			ARSC	1	1		
			RBSC	1	1		
			ARAF	1	1		
			ARFL	12	2		
	testes, size	mm	PCHR	61	6	see number	see number
			ARCS	71	5		
			LKWT	7	3		
			BDWT	2	2		
			LSCS	16	2		
			INCO	1	1		
			RNSM	9	1		
			SFCD	12	4		
			FHDR	23	3		
			ELPT	3	3		
			PAEP	4	2		
			PREP	8	3		
			ASSC	48	3		
			STSC	5	1		
			ARSC	2	2		
			RBSC	23	4		
			ARAF	1	1		
			ARFL	56	11		
	testes, weight	g	RNSM	4	1	see number	see number
			SFCD	7	3		
			FHDR	23	3		
			ELPT	5	4		
			PAEP	4	2		
			PREP	11	5		
			ASSC	33	2		
			STSC	5	1		
			ARSC	2	2		
			RBSC	12	3		
			ARAF	1	1		
			KPSF	7	3		
	ovaries, presence/ absence	N/A	PCHR	54	5	see number	see number
			ARCS	79	7		
			BDWT	2	2		
			LSCS	35	4		
			RNSM	9	1		
			SFCD	14	3		
			FHDR	17	3		
			ELPT	11	7		
			PREP	16	3		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	testes width measured with calipers at widest point of excised organ	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	gross examination	N/A	N/A	N/A	

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
77-0035 Cont'd	ovaries, presence/ absence cont'd		ASSC	103	3		
			STSC	1	1		
			ARSC	6	2		
			BESC	11	2		
			RBSC	18	3		
			ARAF	7	2		
			KPSF	4	2		
			ARFL	50	10		
			STFL	3	2		
	ovaries, relative developmental stage	N/A	PCHR	20	2	see number	see number
			ARCS	3	2		
			RBSC	3	1		
			ARFL	8	1		
	ovaries, weight	g	LSCS	1	1	see number	see number
			RNSM	1	1		
			SFCD	12	3		
			FHDR	16	3		
			ELPT	11	7		
			PREP	15	3		
			ASSC	29	1		
			STSC	1	1		
			ARSC	6	2		
			RBSC	13	2		
			ARAF	7	2		
			KPSF	4	2		
			ARFL	2	1		
	egg diameter	mm	PCHR	36	4	see number	see number
			ARCS	75	6		
			BDWT	2	2		
			LSCS	35	4		
			SFCD	14	3		
			FHDR	17	3		
			ELPT	9	6		
			PREP	13	3		
			ASSC	46	3		
			STSC	1	1		
			ARSC	6	2		
			RBSC	17	2		
			ARAF	7	2		
			KPSF	4	2		
			ARFL	33	8		
			STFL	2	2		
	Food: gut contents, identification	N/A	PCHR	29	4	see number	see number
			ARCS	25	5		
			LKWT	2	2		
			BDWT	2	1		
			INCO	1	1		
			RNSM	16	1		
			FHDR	20	4		
			ELPT	9	8		
			PAEP	4	2		
			PREP	8	2		
			ASSC	21	2		
			ARSC	2	2		
			RBSC	8	2		
			ARFL	6	5		
	Parasitology: presence/absence, by organ	N/A	ARCS	3	2	see number	see number
			LKWT	3	2		
			LSCS	2	1		
			SFCD	5	2		
			ARFL	3	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site, or 10% formalin; Note 17	gonads classified from 1 (immature) to 9 (recovering with old eggs); Note 7	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	see weight	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	average of 5 eggs measured with dial calipers to nearest 0.1 mm	NS	NS	2	
see number	none, analysis on site, or 10% formalin; Note 17	Note 8	N/A	N/A	N/A	
see number	none, analysis on site, or 10% formalin; Note 17	Note 9	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
78-0030	Number:						
	in gillnet	ones (#24 h)	PCHR	47	46	Swedish gillnet	60x1.8 m; six-10 m panels of 10,19,33,45,50 and 60 mm mesh sizes respectively (bar mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			FHSC				
			ARFL				
			STFL				
	in seine haul	ones	BDWT	2?	2	beach seine	9.1 m long; Rachelle mesh
			LSCS				
			FHSC				
			ARFL				
	in trawl	ones	PCHR	4	4	otter trawl	NS
			ARCS				
			FHSC				
			STFL				
	in trap	ones	PCHR	30	4	Beamish trapnet	25.4 mm mesh size (bar mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			ARFL				
			STFL				
	Identification	N/A	PCHR	87	NS	see number	see number
			ARCS	232	NS		
			LKWT	119	NS		
			BDWT	257	NS		
			LSCS	106	NS		
			INCO	14	NS		
			RNSM	119	NS		
			SFCD	179	NS		
			FHSC	366	NS		
			ARFL	751	NS		
			STFL	51	NS		
	Morphometrics:						
	length, total	mm	FHSC	300	NS	see number	see number
			ARFL	739	NS		
			STFL	51	NS		
	length, fork	mm	PCHR	161?	NS	see number	see number
			ARCS	215	NS		
			LKWT	118	NS		
			BDWT	250	NS		
			LSCS	92	NS		
			INCO	11	NS		
			RNSM	94	NS		
			SFCD	184	NS		
	weight	g	PCHR	NS	NS	see number	see number
			ARCS	NS	NS		
			LKWT	NS	NS		
			BDWT	NS	NS		
			LSCS	NS	NS		
			INCO	NS	NS		
			RNSM	NS	NS		
			SFCD	NS	NS		
			FHSC	NS	NS		
			ARFL	NS	NS		
			STFL	NS	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
depth - 0.6-4.3 m; set duration: 2.5-51 h	none, analysis on site	counted by ones	NS	NS	4	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	2	
NS	none, analysis on site	counted by ones	NS	NS	2	
see number	none, analysis on site	McPhail and Lindsey (1970); Hart (1973)	N/A	N/A	N/A	Some specimens preserved.
see number	none, analysis on site	measuring board with metre stick	NS	NS	3	
see number	none, analysis on site	measuring board with metre stick	NS	NS	3	
see number	none, analysis on site	Chatillon scale[1]	NS	NS	3	[1] Calibrated daily. Weight was measured on most fish measured for length, except for those tagged.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
78-0030	Age:						
Cont'd	# of annuli, scale	years	PCHR	34	NS	see number	see number
			ARCS	160	NS		
			LKWT	40	NS		
			BDWT	57	NS		
			LSCS	47	NS		
			INCO	11	NS		
	# of annuli, otolith	years	RNSM	44	NS	see number	see number
			SFCD	21	NS		
			FHSC	27	NS		
			ARFL	184	NS		
			STFL	3	NS		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	11	NS	see number	see number
			ARCS	46	NS		
			LKWT	5	NS		
			BDWT	4	NS		
			LSCS	13	NS		
			INCO	4	NS		
			RNSM	25	NS		
			SFCD	13	NS		
			FHSC	4	NS		
			ARFL	168	NS		
	testes, relative developmental stage	N/A	PCHR	11	NS	see number	see number
			ARCS	46	NS		
			LKWT	5	NS		
			BDWT	4	NS		
			LSCS	13	NS		
			INCO	4	NS		
			RNSM	25	NS		
			SFCD	13	NS		
			FHSC	4	NS		
			ARFL	168	NS		
	ovaries, presence/ absence	N/A	PCHR	27	NS		
			ARCS	25	NS		
			LKWT	1	1		
			BDWT	4	NS		
			LSCS	14	NS		
			INCO	1	1		
			RNSM	28	NS		
			SFCD	19	NS		
			FHSC	21	NS		
			ARFL	6	NS		
	ovaries, relative developmental stage	N/A	PCHR	27	NS		
			ARCS	25	NS		
			LKWT	1	1		
			BDWT	4	NS		
			LSCS	14	NS		
			INCO	1	1		
			RNSM	28	NS		
			SFCD	19	NS		
			FHSC	21	NS		
			ARFL	6	NS		
	Food:						
	gut contents, weight	g	PCHR	23	NS	see number	see number
			ARCS	143	NS		
			LKWT	15	NS		
			BDWT	21	NS		
			LSCS	11	NS		
			RNSM	9	NS		
			SFCD	42	NS		
			FHSC	65	NS		
			ARFL	81	NS		
			STFL	19	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	scale envelopes	placed between two slides and examined under projector	NS	NS	1,3	
see number	scale envelopes	otoliths sectioned and burned to enhance annuli	NS	NS	4	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as 6 (immature) to 10 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as 1 (immature) to 5 (spent); Note 16	NS	NS	3	
see number	10% formalin	ovendried before weighing	NS	NS	3	Sample sizes include data from 1978 and 1979.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
78-0030 Cont'd	gut contents, identification	N/A	PCHR	42	NS	see number	see number
			ARCS	277	NS		
			LKWT	19	NS		
			BDWT	32	NS		
			LSCS	57	NS		
			RNSM	45	NS		
			SFCD	51	NS		
			FHSC	82	NS		
			ARFL	200	NS		
			STFL	36	NS		
	Movements: # of fish tagged	ones	ARCS	55	NS	Swedish gillnet; trapnet	see number
			LKWT	81	NS		
			BDWT	129	NS		
			LSCS	29	NS		
			INCO	5	NS		
			SFCD	81	NS		
78-0031	Number: in gillnet	ones (#/hr/ 60 m)	PCHR	151	60	Swedish gillnet	multifilament nylon; 60x1.8 m; six - 10 m panels of 10, 19,33,45,55, and 60 mm mesh sizes (bar mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			LKTR				
			RNSM				
			NRPK				
			LNSK				
			ARCD				
			SFCD				
			BRBT				
			FHSC				
			ARFL				
			STFL				
	in seine haul	ones	PCHR	NS	NS	beach seine	10 or 18 m long; 6.4 mm opening Raschel mesh
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			PDSM				
			RNSM				
			LNSK				
			SFCD				
			FHSC				
			NSSB				
			ARFL				
			STFL				
			OTHER				
	identification	N/A	PCHR	163	NS	see number	see number
			ARCS	667	NS		
			LKWT	205	NS		
			BDWT	187	NS		
			LSCS	459	NS		
			INCO	185	NS		
			LKTR	1	1		
			PDSM	NS	NS		
			RNSM	295	NS		
			NRPK	1	1		
			LNSK	9	NS		
			ARCD	7	NS		
			SFCD	186	NS		
			BRBT	5	NS		
			FHSC	1049	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	10% formalin	various keys (NS)	N/A	N/A	N/A	Sample sizes include empty stomachs and data from 1978 and 1979.
see number	N/A	Floy tags inserted just below dorsal fin; fish anesthetized with MS 22 and held until they had revived	N/A	N/A	N/A	Recaptures were made in freshwater only.
set duration: 1-6 h	none, analysis on site	counted by ones	NS	NS	4	
2 hauls/ station	10% formalin	counted by ones	NS	NS	2	
see number	gillnet: none, analysis on site; seine: none; analysis on site; representative sample in 10% formalin	NS	N/A	N/A	N/A	[1]OTHER - *Cottus ricei*, *Percopsis omiscomaycus* also captured at one coastal location (Location 56). Except for OTHER - sample sizes are given for gillnet catches only.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
78-0031 Cont'd	Identification cont'd		NSSB	NS	NS		
			ARFL	877	NS		
			STFL	225	NS		
			OTHER[1]	3	NS		
	Morphometrics: length, total	mm	BRBT	5	NS	see number	see number
			FHSC	1049	NS		
			ARFL	877	NS		
			STFL	225	NS		
	length, fork	mm	PCHR	163	NS	see number	see number
			ARCS	667	NS		
			LKWT	205	NS		
			BDWT	187	NS		
			LSCS	459	NS		
			INCO	185	NS		
			LKTR	1	1		
			RNSM	295	NS		
			NRPK	1	1		
			LNSK	9	NS		
			ARCD	7	NS		
			SFCD	186	NS		
	weight	g	PCHR	163	NS	see number	see number
			ARCS	667	NS		
			LKWT	205	NS		
			BDWT	187	NS		
			LSCS	459	NS		
			INCO	185	NS		
			LKTR	1	1		
			RNSM	295	NS		
			NRPK	1	1		
			SFCD	186	NS		
			BRBT	5	NS		
			FHSC	994?	NS		
			ARFL	114?	NS		
			STFL	225	NS		
	Age: # of annuli, scale	years	ARCS	667	NS	see number	see number
			LKWT	205	NS		
			BDWT	187	NS		
			LSCS	459	NS		
			INCO	185	NS		
			NRPK	1	1		
	# of annuli, otolith	years	PCHR	114	NS	see number	see number
			RNSM	46	NS		
			SFCD	137	NS		
			BRBT	5	NS		
			FHSC	845	NS		
			ARFL	598	NS		
			STFL	129	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	measuring board with metre stick	NS	NS	3	
see number	none, analysis on site	measuring board with metre stick	NS	NS	3	
see number	none, analysis on site	NS	NS	NS	2	
see number	dry in scale envelopes	annuli counted under 50x or 90x magnification with a Leitz Trichinoskop IXQ Model 2	NS	NS	1,3	
see number	dry	a) PCHR, RNSM, FHSC - ground by hand on carborundum; cleared with 100% glycerine. b) SFCD, BRBT - embedded in expoxy resin, sectioned, and annuli counted using a dissecting microscope. c) ARFL, STFL - cut with jeweller's saw equipped with a #7 or #8 blade. The cut surface was burned and the otolith then cleared in cedarwood oil.	NS	NS	4	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
78-0031 Cont'd	Reproduction:						
	testes, presence/ absence	N/A	PCHR	79	NS	see number	see number
			ARCS	336	NS		
			LKWT	73	NS		
			BDWT	360[1]	NS		
			LSCS	195	NS		
			INCO	91	NS		
			RNSM	137	NS		
			SFCD	91	NS		
			BRBT	1	1		
			FHSC	234	NS		
			ARFL	303	NS		
			STFL	116	NS		
	testes, relative developmental stage	N/A	PCHR	79	NS		
			ARCS	336	NS		
			LKWT	73	NS		
			BDWT	360[1]	NS		
			LSCS	195	NS		
			INCO	91	NS		
			RNSM	137	NS		
			SFCD	91	NS		
			BRBT	1	1		
			FHSC	234	NS		
			ARFL	303	NS		
			STFL	116	NS		
	ovaries, presence/ absence	N/A	PCHR	71	NS	see number	see number
			ARCS	269	NS		
			LKWT	35	NS		
			BDWT	257[1]	NS		
			LSCS	182	NS		
			INCO	82	NS		
			RNSM	128	NS		
			SFCD	84	NS		
			BRBT	4	NS		
			FHSC	591	NS		
			ARFL	452	NS		
			STFL	74	NS		
	ovaries, relative developmental stage	N/A	PCHR	71	NS	see number	see number
			ARCS	269	NS		
			LKWT	35	NS		
			BDWT	257[1]	NS		
			LSCS	182	NS		
			INCO	82	NS		
			RNSM	128	NS		
			SFCD	84	NS		
			BRBT	4	NS		
			FHSC	591	NS		
			ARFL	452	NS		
			STFL	74	NS		
	Food:						
	gut contents, weight	g	PCHR	10	NS	see number	see number
			ARCS	100	NS		
			LKWT	49	NS		
			BDWT	55	NS		
			LSCS	68	NS		
			INCO	45	NS		
			RNSM	28	NS		
			SFCD	72	NS		
			FHSC	64	NS		
			ARFL	101	NS		
			STFL	57	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	gross examination	N/A	N/A	N/A	[1]Includes samples from freshwater.
see number	none, analysis on site	gonads classified as: 6 (immature) to 10 (spent); Note 16	NS	NS	3	[1]Includes samples from freshwater.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	[1]Includes samples from freshwater.
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	[1]Includes samples from freshwater.
see number	10% formalin for about 7 days, then transferred to 70% ethanol	sorted to taxonomic class or order; oven dried at 90°C for 12 h; weighed to nearest 0.01 g on a Mettler Model PL 1200 electronic balance	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
78-0031 Cont'd	gut contents, identification	N/A	PCHR	10	NS	see number	see number
			ARCS	100	NS		
			LKWT	49	NS		
			BDWT	55	NS		
			LSCS	68	NS		
			INCO	45	NS		
			RNSM	28	NS		
			SFCD	72	NS		
			FHSC	64	NS		
			ARFL	101	NS		
			STFL	57	NS		
79-0037	Number:						
	in gillnet	ones (#/24h)	PCHR	63	16	Swedish gillnet	60 x 1.8 m; six-10 m panels of 10,19,33,45, 50, and 60 mm mesh sizes respectively (bar mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			FHSC				
			ARFL				
			STFL				
	in seine haul	ones	PCHR	35[1]	15	beach seine	soft Rachelle mesh
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			PDSM				
			RNSM				
			SFCD				
			FHSC				
			NSSB				
			ARFL				
			STFL				
	identification	N/A	PCHR	183	NS	see number	see number
			ARCS	581	NS		
			LKWT	60	NS		
			BDWT	306	NS		
			LSCS	173	NS		
			INCO	8	NS		
			RNSM	99	NS		
			SFCD	70	NS		
			FHSC	511	NS		
			NSSB	4	NS		
			ARFL	406	NS		
			STFL	43	NS		
	Morphometrics:						
	length, total	mm	FHSC	300	NS	see number	see number
			ARFL	141	NS		
			STFL	40	NS		
	length, fork	mm	PCHR	70	NS	see number	see number
			ARCS	441	NS		
			LKWT	60	NS		
			BDWT	248	NS		
			LSCS	102	NS		
			INCO	8	NS		
			RNSM	60	NS		
			SFCD	55	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	10% formalin for about 7 days, then transferred to 70% ethanol	identified to taxonomic class or order with a variable magnification stereo microscope	N/A	N/A	N/A	Other samples were given cursory examination under field conditions.
depth: 0.5-5.5 m; set duration: 0.17-21.83 h	none, analysis on site	counted by ones	NS	NS	2	
depth: 1.5 m	none, analysis on site	usually counted by ones	NS	NS	2	[1]More samples were likely taken - usually more than one haul was made per station at a time.
see number	none, analysis on site	McPhail and Lindsey (1970); Hart (1973)	N/A	N/A	N/A	Some specimens preserved.
see number	none, analysis on site	measuring board with metre stick	NS	NS	3	
see number	none, analysis on site	measuring board with metre stick	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
79-0037 Cont'd	weight	g	PCHR	NS	NS	see number	see number
			ARCS	NS	NS		
			LKWT	NS	NS		
			BDWT	NS	NS		
			LSCS	NS	NS		
			INCO	NS	NS		
			RNSM	NS	NS		
			SFCD	NS	NS		
			FHSC	NS	NS		
			ARFL	NS	NS		
			STFL	NS	NS		
	Age: # of annuli, scale	years	PCHR	63	NS	see number	see number
			ARCS	230	NS		
			LKWT	40	NS		
			BDWT	187	NS		
			LSCS	54	NS		
			INCO	8	NS		
	# of annuli, otolith	years	RNSM	48	NS	see number	see number
			FHSC	126	NS		
			ARFL	110	NS		
			STFL	30	NS		
	Reproduction: testes, presence/ absence	N/A	PCHR	32	NS	see number	see number
			ARCS	117	NS		
			LKWT	13	NS		
			BDWT	24	NS		
			LSCS	37	NS		
			INCO	5	NS		
			RNSM	30	NS		
			SFCD	20	NS		
			FHSC	77	NS		
			ARFL	139	NS		
			STFL	22	NS		
	testes, relative developmental stage	N/A	PCHR	32	NS	see number	see number
			ARCS	117	NS		
			LKWT	13	NS		
			BDWT	24	NS		
			LSCS	37	NS		
			INCO	5	NS		
			RNSM	30	NS		
			SFCD	20	NS		
			FHSC	77	NS		
			ARFL	139	NS		
			STFL	22	NS		
	ovaries, presence/ absence	N/A	PCHR	35	NS	see number	see number
			ARCS	113	NS		
			LKWT	8	NS		
			BDWT	16	NS		
			LSCS	34	NS		
			INCO	3	NS		
			RNSM	27	NS		
			SFCD	26	NS		
			FHSC	151	NS		
			ARFL	116	NS		
			STFL	13	NS		
	ovaries, relative developmental stage	N/A	PCHR	35	NS	see number	see number
			ARCS	113	NS		
			LKWT	8	NS		
			BDWT	16	NS		
			LSCS	34	NS		
			INCO	3	NS		
			RNSM	27	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	Chatillon scale, calibrated daily	NS	NS	3	Weight was measured on most fish measured for length, except for those tagged.
see number	scale envelopes	placed between two slides and examined under projector	NS	NS	1,3	
see number	scale envelopes	otoliths sectioned and burned to enhance annuli	NS	NS	4	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6(immature) to 10 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
79-0037 Cont'd	ovaries, relative developmental stage		SFCD	26	NS		
			FHSC	151	NS		
			ARFL	116	NS		
			STFL	13	NS		
	Food: gut contents, weight	g	PCHR	23	NS	see number	see number
			ARCS	143	NS		
			LKWT	15	NS		
			BDWT	21	NS		
			LSCS	11	NS		
			RNSM	9	NS		
			SFCD	42	NS		
			FHSC	65	NS		
			ARFL	81	NS		
			STFL	19	NS		
	gut contents, identification	N/A	PCHR	42	NS	see number	see number
			ARCS	277	NS		
			LKWT	19	NS		
			BDWT	32	NS		
			LSCS	57	NS		
			RNSM	45	NS		
			SFCD	51	NS		
			FHSC	82	NS		
			ARFL	200	NS		
			STFL	36	NS		
	Movements: # of fish tagged	ones	ARCS	78	NS	see number	see number
			LKWT	33	NS		
			BDWT	121	NS		
			LSCS	6	NS		
			INCO	1	1		
79-0039	Number: in gillnet	ones (#/h)	PCHR	74	14	Swedish gillnet	multifilament nylon; 60 x 1.8 m; six - 10 m panels of 10, 19,33,45,55, and 60 mm mesh sizes respectively (bar mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			ELPT				
			FHSC				
			ARFL				
			STFL				
			ARCS	90	14	gillnet	210/4 braided nylon; 22.9 x 1.8 m; one panel of 51 or 70 mm mesh size (bar mesh measure)
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BRBT				
			FHSC				
			ARFL				
			STFL				
	in seine haul	ones (#/m shoreline x 10^4)	PCHR	166	13	beach seine	a) 9.1 m long; 6.4 mm mesh size.
			ARCS				
			LKWT				
			BDWT				
			LSCS				b) 6.1 m long;

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	10% formalin	oven dried before weighing	NS	NS	3	Sample sizes include data from 1978 and 1979.
see number	10% formalin	various keys (NS)	N/A	N/A	N/A	Sample sizes include empty stomachs and data from 1978 and 1979.
see number	fish anesthetized with MS 22 and held after tagging until they had revived	Floy tags, inserted just below dorsal fin	N/A	N/A	N/A	Most fish to be tagged captured by seine. Recaptures were made in freshwater only.
bottom or mid-water depths; set duration: 1.75-5.5 h	none, analysis on site	counted by ones	NS	NS	2	
tied to and set perpendicular to shore[1]; set duration: 0.75-2.25 h	none, analysis on site	counted by ones	NS	NS	2	[1]Except for offshore stations.
2 samples per site	none, analysis on site	counted by ones, except for large samples when a subsample was taken	NS	NS	2	[1]See identification.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
79-0039 Cont'd	in seine haul cont'd		INCO				6.4 mm mesh size.
			PDSM				
			RNSM				
			SFCD				
			FHSC				
			NSSB				
			ARFL				
			STFL				
			OTHER[1]				
	identification	N/A	PCHR	192	NS	see number	see number
			ARCS	1298	NS		
			LKWT	365	NS		
			BDWT	662	NS		
			LSCS	2112	NS		
			INCO	131	NS		
			PDSM	17	NS		
			RNSM	251	NS		
			SFCD	29	NS		
			BRBT	7	NS		
			ELPT	1	1		
			FHSC	590	NS		
			NSSB	657	NS		
			ARFL	152	NS		
			STFL	228	NS		
			OTHER[1]	56	NS		
	Morphometrics: length, total	mm	BRBT	7	NS	see number	see number
			ELPT	1	1		
			FHSC	334	NS		
			ARFL	142	NS		
			STFL	228	NS		
			NSSB	NS	NS		
	length, fork	mm	PCHR	159	NS	see number	see number
			ARCS	856	NS		
			LKWT	233	NS		
			BDWT	602	NS		
			LSCS	875	NS		
			INCO	125	NS		
			PDSM	17	NS		
			RNSM	103	NS		
			SFCD	29	NS		
	weight	g	PCHR	146	NS	gillnet	see number
			ARCS	197	NS		
			LKWT	195	NS		
			BDWT	561	NS		
			LSCS	137	NS		
			INCO	119	NS		
			RNSM	98	NS		
			SFCD?	NS	NS		
			BRBT?	NS	NS		
			ELPT	1	1		
			FHSC	161	NS		
			ARFL	107	NS		
			STFL	161	NS		
	Age: # of annuli, scale	years	ARCS	181[1]	NS	see number	see number
			LKWT	230	NS		
			BDWT	549	NS		
			LSCS	108[1]	NS		
			INCO	114	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	gillnet samples: none; analysis on site; seine samples: entire sample, or sub-sample from large catches, preserved in 10% formalin and then transferred to 40% isopropyl alcohol	taxonomic keys in: McAllister (1960); McPhail and Lindsey (1970); Hart (1973); Scott and Crossman (1973)	N/A	N/A	N/A	[1]Osmerids (46) and coregonids (10).
see number	gillnet samples: none; analysis on site; seine samples: 10% formalin	to nearest mm	NS	NS	3	
see number	gillnet samples: none, analysis on site; seine samples: 10% formalin	to nearest mm	NS	NS	3	
see number	none, analysis on site	to nearest 25 g	NS	NS	2	
see number	dry in scale envelopes	several scales/fish placed between two glass slides; annuli counted from image produced by micro-projector	NS	NS	1,3	[1]Not including 100 0+ and 1+ fishes, most of which were aged by length.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
79-0039 Cont'd	# of annuli, otolith cont'd	years	PCHR	81	NS	gillnet	see number
			RNSM	62	NS		
			SFCD	12	NS		
			BRBT	5	NS		
			FHSC	40	NS		
			ARFL	21	NS		
			STFL	50	NS		
	Reproduction: testes, presence/ absence	N/A	PCHR	69	NS	gillnet	see number
			ARCS	71	NS		
			LKWT	106	NS		
			BDWT	307	NS		
			LSCS	58	NS		
			INCO	48	NS		
			RNSM	74	NS		
			SFCD	8	NS		
			BRBT	1	1		
			ARFL	12	NS		
			STFL	43	NS		
	testes, relative developmental stage	N/A	PCHR	69	NS	gillnet	see number
			ARCS	71	NS		
			LKWT	106	NS		
			BDWT	307	NS		
			LSCS	58	NS		
			INCO	48	NS		
			RNSM	74	NS		
			SFCD	8	NS		
			BRBT	1	1		
			ARFL	12	NS		
			STFL	43	NS		
	testes, weight	g	PCHR	NS	NS	gillnet	see number
			ARCS	5	NS		
			LKWT	28	NS		
			BDWT	65	NS		
			INCO	5	NS		
	ovaries, presence/ absence	N/A	PCHR	77	NS	gillnet	see number
			ARCS	126	NS		
			LKWT	91	NS		
			BDWT	256	NS		
			LSCS	80	NS		
			INCO	72	NS		
			RNSM	40	NS		
			SFCD	11	NS		
			BRBT	6	NS		
			ELPT	1	1		
			FHSC	40	NS		
			ARFL	17	NS		
			STFL	26	NS		
	ovaries, relative developmental stage	N/A	PCHR	77	NS	gillnet	see number
			ARCS	126	NS		
			LKWT	91	NS		
			BDWT	256	NS		
			LSCS	80	NS		
			INCO	72	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	dry in scale envelopes	PCHR, RNSM, FHSC: ground by hand on carborundum; cleared with 100% glycerine; SFCD, BRBT: embedded in epoxy, sectioned, and annuli counted using a dissecting microscope; ARFL, STFL: cut with jeweller's saw (#7 or #8 blade); cut surface burned and otolith cleared with cedarwood oil	NS	NS	4	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6(immature) to 10 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	to nearest g	NS	NS	2	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
79-0039 Cont'd	ovaries, relative developmental stage		RNSM	40	NS		
			SFCD	11	NS		
			BRBT	6	NS		
			ELPT	1	1		
			FHSC	40	NS		
			ARFL	17	NS		
			STFL	26	NS		
	ovaries, weight	g	PCHR	17	NS	gillnet	see number
			ARCS	19	NS		
			LKWT	25	NS		
			BDWT	103	NS		
			INCO	18	NS		
	egg diameter	mm?	ARCS	19	NS	gillnet	see number
			BDWT	3	NS		
			LKWT	1	1		
	Food:						
	gut contents, weight	g	PCHR	105	NS	gillnet	see number
			ARCS	96	NS		
			LKWT	68	NS		
			BDWT	59	NS		
			LSCS	31	NS		
			INCO	13	NS		
			RNSM	15	NS		
			FHSC	22	NS		
			ARFL	10	NS		
			STFL	27	NS		
	gut contents, identification	N/A	PCHR	130	NS	gillnet	see number
			ARCS	199	NS		
			LKWT	212	NS		
			BDWT	560	NS		
			LSCS	108	NS		
			INCO	94	NS		
			RNSM	56	NS		
			SFCD	16	NS		
			BRBT	2	NS		
			FHSC	NS	NS		
			ARFL	17	NS		
			STFL	32	NS		
80-0006	Number:						
	caught by bottom grab	ones	OTHER		20	ponar grab	area of 0.05 m^2 extracted/ sample
	identification	N/A	OTHER[1]	31	12	ponar grab	see number
	Morphometrics:						
	length, total	mm	OTHER	24	10	ponar grab	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	to nearest g	NS	NS	2	
see number	none, analysis on site	NS	NS	NS	2	
see number	10% formalin	contents sorted by category, dried at 38°C, and weighed to nearest 0.01 g	NS	NS	2	Sample sizes include empty stomachs.
see number	a) none; analysis on site b) 10% formalin	a) gross examination b) identified to taxonomic class, order	N/A	N/A	N/A	Sample sizes include empty stomachs.
3-6 grabs /station	10% formalin	counted by ones	NS	NS	N/A	
see number	10% formalin	representative specimens sent to Marine Fishes Division of the Smithsonian Institution, Washington, D.C. for positive identification	N/A	N/A	N/A	Positive identifications not given in report. Reference collection apparently maintained in Beak's museum, according to report. [1]Stichaeidae (n=1); Pholidae (n=1); Cottidae (n=28); Cyclopteridae (n=1).
see number	10% formalin	NS	NS	NS	2	Stichaeidae (n=1); Pholidae (n=1); Cottidae (n=22).

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
80-0006 Cont'd	Food: gut contents, identification	N/A	OTHER	23	9	ponar grab	see number
80-0041	Number: in gillnet	ones (#/h)	PCHR ARCS LKWT BDWT LSCS INCO RNSM ARCD SFCD BRBT FHSC ARFL STFL	59	14	Swedish gillnet	60x1.5 m; six - 10 m panels of 10,19,33,55, and 60 mm mesh sizes respectively (bar mesh measure); floats attached to floatline at 10 m intervals to sample at surface
	in seine haul	ones	PCHR ARCS LKWT BDWT LSCS INCO RNSM TSSB NSSB FHSC STFL ARFL	20	9	beach seine	30.5x3.1 m; 6.5 mm mesh size
	in trawl	ones	PCHR ARCS LSCS RNSM ARCD SFCD FHSC KPSF NSSB ARFL STFL	20	9	otter trawl	beam: 4.6 m; length: 5.5 m; 6.5 mm mesh size at the cod end; Scotchman buoys attached to otter boards when performing surface tows
	counted from sonar scans	# of schools /40 S	N/A	78	9		Wesmar SS165 Scanning Sonar; 160 KHz, planned position indicator; cathode ray tube display

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	10% formalin	identified to taxonomic class or sub-class	N/A	N/A	N/A	Pholidae (n=1); Cottidae (n=22).
inshore sets: tied to shore and set perpendicular to shoreline; set duration: usually 0.5 h - sometimes up to 1.0 h	none, analysis on site	counted by ones	NS	NS	2	
a) seine walked in semi-circle beginning and ending on shore; depth - 1.5 m; within 15 m of shore b) when shore-ice inhibited sets on shore, net was utilized as a "purse seine" - seine pulled in a complete circle by boat and recovered	none, analysis on site	counted by ones (except some juvenile RNSM and FHSC)	NS	NS	a) 4 b) 2	
tow depth: surface or bottom (to 10 m); tow duration: 5-10 min	none, analysis on site	counted by ones	NS	NS	2	
	a) none; analysis on site b) photographic record	a) visual assessment for 5 min period (30 sonar scans) b) Polaroid or Nikon F, with 55 mm macro lens, cameras, exposure time allowing 4 scans of sonar; # of schools (mode = 4 fish) given as ranges (1-5, 5-10, 10-15 or 15-20) detected in 40 S	see remarks	see remarks	2	Because of shallow depth, scan radius limited to 15 m around vessel - in rough weather limited to 10 m radius.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
80-0041 Cont'd	Identification	N/A	PCHR	34	NS	see number	see number
			ARCS	259	NS		
			LKWT	15	NS		
			BDWT	19	NS		
			LSCS	186	NS		
			INCO	7	NS		
			RNSM	289	NS		
			ARCD	57	NS		
			SFCD	7	NS		
			BRBT	1	1		
			NSSB	8	NS		
			TSSB	1	1		
			FHSC	186	NS		
			KPSF	1	1		
			ARFL	13	NS		
			STFL	30	NS		
			OTHER[1]				
	Morphometrics:						
	length, total	mm	BRBT	1	1	see number	see number
			FHSC	159	NS		
			NSSB	8	NS		
			TSSB	1	1		
			KPSF	1	1		
			ARFL	13	NS		
			STFL	30	NS		
	length, fork	mm	PCHR	34	NS	see number	see number
			ARCS	218	NS		
			LKWT	15	NS		
			BDWT	19	NS		
			LSCS	186	NS		
			INCO	7	NS		
			RNSM	271	NS		
			ARCD	57	NS		
			SFCD	7	NS		
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	2	NS	see number	see number
			ARCS	17	NS		
			BDWT	1	1		
			LSCS	7	NS		
			INCO	1	1		
			RNSM	1	1		
	testes, relative developmental stage	N/A	PCHR	2	NS	see number	see number
			ARCS	17	NS		
			BDWT	1	1		
			LSCS	7	NS		
			INCO	1	1		
			RNSM	1	1		
	ovaries, presence/ absence	N/A	PCHR	3	NS	see number	see number
			ARCS	38	NS		
			LSCS	9	NS		
			INCO	1	1		
	ovaries, relative developmental stage	N/A	PCHR	3	NS	see number	see number
			ARCS	38	NS		
			LSCS	9	NS		
			INCO	1	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site; reference collection - 10% formalin	taxonomic keys referred to: McAllister (MS); Leim and Scott (1966); McPhail and Lindsey (1970)	N/A	N/A	N/A	[1]Juvenile RNSM, FHSC, and unidentified coregonids (which escaped from sampling gear during retrieval). POCD and DSSS were reported as captured in the report, but in error. Reference specimens examined by D.E. McAllister, National Museum of Canada, were ARCD and KPSF respectively. TSSB - not reported from the Beaufort Sea (see Hunter et al. 1984). Reference collection at Dobrocky Seatech Ltd., Victoria, B.C.
see number	none, analysis on site	to nearest mm	NS	NS	2	Type of length measurement not specifically mentioned in report.
see number	none, analysis on site	to nearest mm	NS	NS	2	Type of length measurement not specifically mentioned in report. Length also measured on some juvenile RNSM.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6 (immature) to 10 (spent); Note 16	NS	NS	2	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
80-0041 Cont'd	Food: gut contents, numbers of individuals	ones	INCO	NS	NS	see number	see number
	gut contents, identification	N/A	ARCS LKWT LSCS INCO	NS NS NS NS	NS NS NS NS	see number	see number
80-0105	Number: passed through dredge					cutter suction dredge, on-line monitor	cutter diameter 2.90 m; min. cutter depth - 6.0 m; max. cutter depth - 2.50 m; discharge capacity - 3.8 m^3/s; pipeline velocity - 6 m/s; pipeline dia meter - 0.90 m
		ones	OTHER[1]	87	1		a) 0.2 m diameter pipe positioned at 45° into centre of 0.90 m discharge pipe. Flow regulated by 0.2 m diameter gate valve (later replaced with 0.15 m diameter gate valve) and directed into 2.0x2.2 m monitoring enclosure. Fine mesh wire screen (0.64 mm) retained samples.
		ones	ARCS LKWT LSCS SFCD OTHER[2]	118	1		b) 0.15 m diameter pipe positioned at 55° into 0.76 m diameter discharge pipe. Flow regulated by 0.15 m diameter gate valve and directed into 1.5x

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	see remarks	NS	NS	2	Number of ingested fish given for INCO in text of report.
see number	none, analysis on site	to species when possible	N/A	N/A	N/A	Most stomachs were empty, or contained "digested material". *Saduria* and ARCS were recognized in the gut of LKWT and INCO respectively.
	none, analysis on site	counted by ones	NS	NS	2	[1]Gadids, cottids, and unidentified fishes. [2]Coregonids.
2-45 min. sampling periods						Unknown percentage of total spoil volume sampled by devices that were continuously being modified to increase effectiveness. Equipment breakdowns and clogging of monitoring devices were frequent.
2-29 min. sampling periods						

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
80-0105 Cont'd	passed through dredge cont'd						1.5x1.5 m monitoring box. Fine mesh (6.4 mm) screen retained samples
		ones	ARCS LKWT LSCS INCO ARCD FHSC OTHER[1]	48	1	cutter suction dredge, decant monitoring	run-off from spoil in disposal area collected in weir box, and carried by 3-0.76 m diameter culverts to a monitoring device of 3.05 x 6.1 m having metal screen (2.5 mm openings) supporting fine mesh (6.4 mm) to retain samples
	Identification	N/A	ARCS	26	1	see number	see number
			LKWT	1	1		
			LSCS	27	1		
			INCO	3	1		
			ARCD	1	1		
			SFCD	1	1		
			FHSC	2	1		
			OTHER[1]				
	Morphometrics:						
	length, total	mm	FHSC	2	1	see number	see number
			OTHER[1]				
	length, fork	mm	ARCS	26	1	see number	see number
			LKWT	2	1		
			LSCS	27	1		
			INCO	3	1		
			ARCD	1	1		
			SFCD	1	1		
			OTHER[1]				
81-0029	Number:						
	in gillnet	ones (# herring /100 m /24 h)	PCHR ARCS LKWT BDWT LSCS INCO ARCD SFCD FHSC STFL	35	6	gillnet	10 or 50 m long, 2-4 m deep; 64 mm mesh size (stretched mesh measure)

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
	none, analysis on site	counted by ones	NS	NS	2	[1]Coregonids Monitoring possible only when dredge not actively pumping. Small size of monitoring device and extreme flows encountered probably resulted in majority of fish being washed into the harbour.
see number	10% formalin	NS	N/A	N/A	N/A	[1]Coregonids (n=15), gadids (n=17), cottids (n=34) and unidentified fish (n=1). Many fish badly damaged and could not be identified. Unidentified gadids and cottids were believed to be SFCD and FHSC respectively.
see number	10% formalin	NS	NS	NS	2	[1]Cottids (n=29). Referred to as fork length in report.
see number	10% formalin	NS	NS	NS	2	[1]Coregonids (n=29) and gadids (n=16). Most gadids were decapitated and lengths estimated.
depth: 2-8 m; set duration: 13-28 h; set under ice, in cracks during break-up, and finally in open water during the course of the study	none, analysis on site	counted by ones	NS	NS	4	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
81-0029 Cont'd	Identification	N/A	PCHR	1815	6	gillnet	see number
			ARCS	1064	6		
			LKWT	170	6		
			BDWT	103	6		
			LSCS	205	6		
			INCO	44	4		
			ARCD	4	1		
			SFCD	71	3		
			FHSC	100	6		
			STFL	18	1		
	Morphometrics:						
	length, standard	mm	PCHR	240	NS	gillnet	see number
	length, fork	mm	ARCS	97	NS	gillnet	see number
			LKWT	36	NS		
			BDWT	19	NS		
			LSCS	27	NS		
			INCO	15	NS		
	weight	g	PCHR	240	NS	gillnet	see number
			ARCS	97	NS		
			LKWT	36	NS		
			BDWT	19	NS		
			LSCS	27	NS		
			INCO	15	NS		
	Age:						
	# of annuli, scale	years	PCHR	NS	NS	gillnet	see number
	# of annuli, otolith	years	PCHR	110	NS	gillnet	see number
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	106	NS	gillnet	see number
			ARCS	37	NS		
			LKWT	6	NS		
			BDWT	3	NS		
			LSCS	4	NS		
			INCO	6	NS		
	testes, relative developmental stage	N/A	PCHR	106	NS	gillnet	see number
			ARCS	37	NS		
			LKWT	6	NS		
			BDWT	3	NS		
			LSCS	4	NS		
			INCO	6	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	taxonomic keys refer to: Hart (1973), Scott and Crossman (1973)	N/A	N/A	N/A	
see number	none, analysis on site	to nearest mm	NS	NS	3	
see number	none, analysis on site	to nearest mm	NS	NS	3	
see number	none, analysis on site	to nearest 10 g	NS	NS	2	
see number	scale envelopes	scales placed between two slides and annuli counted with aid of an Eberbach micro-projector (X60)	NS	NS	1,3	Some PCHR were aged from scales, but information not utilized in final report. Scale samples also collected from ARCS, LKWT, BDWT, LSCS, and INCO, but none aged.
see number	scale envelopes	otoliths lightly ground on fine carborundum stone, cleaned in 3:1 solution of benzyl-benzoate and methyl salicylate, placed in a depression slide and annuli counted with aid of a dissecting microscope (X30)	NS	NS	4	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6 (immature) to 10 (spent); Note 16	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
81-0029 Cont'd	ovaries, presence/ absence	N/A	PCHR	110	NS	gillnet	see number
			ARCS	57	NS		
			LKWT	16	NS		
			BDWT	8	NS		
			LSCS	21	NS		
			INCO	9	NS		
	ovaries, relative developmental stage	N/A	PCHR	110	NS	gillnet	see number
			ARCS	57	NS		
			LKWT	16	NS		
			BDWT	8	NS		
			LSCS	21	NS		
			INCO	9	NS		
	ovaries, weight	g	PCHR	120	NS	gillnet	see number
	Food:						
	gut contents, identification	N/A	PCHR	16	NS	gillnet	see number
			ARCS	97	NS		
			LKWT	36	NS		
			BDWT	19	NS		
			LSCS	26	NS		
			INCO	15	NS		
81-0031	Number:						
	in gillnet	ones (#/h)	PCHR	54	2	Swedish gillnet	multifilament nylon; 60x1.8 m; six - 10 m panels of 10, 19, 33, 45, 55, and 60 mm mesh sizes respectively (bar mesh measure) floating type nets used for surface and mid-water sets
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			BLPB				
			SLEB				
			FHSC				
			STFL				
	in gillnet	ones (#/h)	PCHR	31	4	Swedish gillnet	multifilament nylon; 60x1.8 m; six - 10 m panels 10, 19, 33, 45, 55, and 60 mm mesh sizes respectively (bar mesh measure) floating type nets
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			RNSM				
			SFCD				
			FHSC				
			ARFL				
			STFL				
	in trawl	ones (#/ 10 min)	PCHR	36	2	otter trawl	4.8 m size; mesh size of 6.0 mm at cod end
			ARCS				
			LKWT				
			LSCS				
			INCO				
			RNSM				
			ARCD				
			SFCD				
			BRBT				
			ELPT				
			BLPB				
			SLEB				
			FHSC				
			ARFL				
			STFL				

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	to nearest g	NS	NS	2	
see number	none, analysis on site	gross examination, to taxonomic order when possible	N/A	N/A	N/A	Most stomachs were empty.
offshore samples; 2 stations with 3 depths at each (surface, mid-water, and bottom); set duration: usually 2 h between 13:00-17:00	none, analysis on site	counted by ones	NS	NS	4	
inshore samples; set parallel to shore; depth: usually 2 m; set duration: usually 2 h between 13:00-17:00	none, analysis on site	counted by ones	NS	NS	4	
bottom trawling; depth of 7-16 m; tow duration: usually 10 min. between 13:00 -17:00; tow velocity: usually 1m/s	none, analysis on site	counted by ones	NS	NS	4	Trawls were fished at same locations as offshore gillnets. Three trawls were also performed outside Tuktoyaktuk Harbour n Kugmallit Bay. ARCS, LSCS, RNSM, ARCD, SFCD, and FHSC were captured.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
81-0031 Cont'd	In trawl	ones (#/ 10 min)	PCHR	28	2	otter trawl	4.8 m size; mesh size of 6.0 mm at cod end; buoys attached to otter boards by 2 m line maintained trawl near the surface
			ARCS				
			LKWT				
			LSCS				
			RNSM				
			SLEB				
			ARFL				
			STFL				
	In trap	ones (#/h)	PCHR	144	10[1]	Beamish trap net[2]	box of 2x1x1 m; opening to box of 0.12x0.12 m; leads of 1-1.5 m deep, variable lengths; bridle veil mesh netting
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			PDSM				
			RNSM				
			NRPk				
			LNSK				
			SFCD				
			BRBT				
			BLPB				
			FHSC				
			NSSB				
			ARFL				
			STFL				
	Identification	N/A	PCHR	318	NS	see number	see number
			ARCS	789	NS		
			LKWT	1504	NS		
			BDWT	303	NS		
			LSCS	1891	NS		
			INCO	58	NS		
			PDSM	14	NS		
			RNSM	633	NS		
			NRPK	1	1		
			LNSK	2	NS		
			ARCD	13	NS		
			SFCD	123	NS		
			BRBT	70	NS		
			ELPT	188	NS		
			BLPB	181	NS		
			SLEB	71	NS		
			FHSC	345	NS		
			NSSB	1	1		
			ARFL	263	NS		
			STFL	211	NS		
	Morphometrics:						
	length, total	mm	BRBT	70	NS	see number	see number
			ELPT	188	NS		
			BLPB	181	NS		
			SLEB	71	NS		
			FHSC	345	NS		
			NSSB	1	1		
			ARFL	263	NS		
			STFL	211	NS		
	length, fork	mm	PCHR	318	NS	see number	see number
			ARCS	789	NS		
			LKWT	1504	NS		
			BDWT	303	NS		
			LSCS	1891	NS		
			INCO	58	NS		
			PDSM	14	NS		
			RNSM	633	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
surface trawling, depth of 2 m; tow duration: usually 10 min. between 13:00-17:00; tow velocity: approximately 1 m/s	none, analysis on site	counted by ones	NS	NS	4	
lead set perpendicular to shoreline; depth of 2-2.5 m; set duration: of approximately 24 h	none; analysis on site	counted by ones	NS	NS	4	[1]Nets were set in pairs so that fish were captured from one direction in each net of the pair. Thus, there were five locations fished with two stations at each. [2]See Beamish (1973).
see number	most analyzed on site; others preserved in 10% formalin and identified later	D.E. McAllister, NMC, verified identifications of ELPT, BLPB, and SLEB sent to the museum; K.W. Stewart, Dept. of Zoology, University of Manitoba, also verified identifications of the above and of most of the other species	N/A	N/A	N/A	Specimens deposited at the National Museum of Canada (ELPT, BLPB, and SLEB), the Dept. of Zoology, University of Manitoba (all species except PDSM, NRPK, and LNSK). In addition, 1 ARCS, 21 LSCS, 8 RNSM, 59 ARCD, 2 SFCD, and 61 FHSC were captured by trawling outside Tuktoyaktuk Harbour.
see number	none, analysis on site	measured to nearest mm on fish measuring board (with metre stick)	NS	NS	3	
see number	none, analysis on site	measured to nearest mm on fish measuring board (with metre stick)	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
81-0031 Cont'd	length, fork cont'd		NRPK	1	1		
			LNSK	2	NS		
			ARCD	13	NS		
			SFCD	123	NS		
	weight	g	PCHR	300	NS	see number	see number
			ARCS	526	NS		
			LKWT	390	NS		
			BDWT	199	NS		
			LSCS	780	NS		
			INCO	56	NS		
			PDSM	1	1		
			RNSM	498	NS		
			NRPK	1	1		
			LNSK	2	NS		
			ARCD	12	NS		
			SFCD	80	NS		
			BRBT	57	NS		
			ELPT	183	NS		
			BLPB	178	NS		
			SLEB	68	NS		
			FHSC	205	NS		
			ARFL	127	NS		
			STFL	135	NS		
	Age:						
	# of annuli, scale	year	ARCS	110	NS	see number	see number
			LKWT	71	NS		
			BDWT	77	NS		
			LSCS	81	NS		
			INCO	48	NS		
	# of annuli, otolith	years	PCHR	71	NS	see number	see number
			RNSM	61	NS		
			BLPB	97	NS		
			SLEB	43	NS		
	# of annuli, cleithrum	years	NRPK	1	1	Beamish trap net	see number
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	102	NS	see number	see number
			ARCS	53	NS		
			LKWT	9	NS		
			BDWT	20	NS		
			LSCS	81	NS		
			INCO	9	NS		
			RNSM	112	NS		
			SFCD	19	NS		
			BRBT	9	NS		
			ELPT	50	NS		
			BLPB	43	NS		
			SLEB	10	NS		
			ARFL	23	NS		
			STFL	67	NS		
	testes, relative developmental stage	N/A	PCHR	102	NS	see number	see number
			ARCS	53	NS		
			LKWT	9	NS		
			BDWT	20	NS		
			LSCS	81	NS		
			INCO	9	NS		
			RNSM	112	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	hanging pan scale or hand held spring scale	NS	NS	2	
see number	dry in scale envelopes	scales placed between two glass slides and read on a Leitz projector; fish aged by one person and then independently re-aged by a second person	NS	NS	1,3	Unaged samples exist for ARCS, LKWT, BDWT, LSCS, and INCO.
see number	dry in plastic trays	otoliths ground on sharpening stone and annuli counted under a dissecting microscope	NS	NS	4	Unaged samples exist for PCHR, RNSM, SFCD, BRBT, ELPT, BLPB, SLEB, ARFL, and STFL.
see number	dry in scale envelopes		N/A	N/A	N/A	Analysis in progress.
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6 (immature) to 10 (spent); Note 16	NS	NS	3	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
81-0031 Cont'd	testes, relative developmental stage cont'd		SFCD	19	NS		
			BRBT	9	NS		
			ELPT	50	NS		
			BLPB	43	NS		
			SLEB	10	NS		
			ARFL	23	NS		
			STFL	67	NS		
	testes, weight	g	PCHR	91	NS	see number	see number
			ARCS	39	NS		
			LKWT	1	1		
			BDWT	12	NS		
			LSCS	50	NS		
			INCO	6	NS		
			RNSM	9	NS		
			SFCD	2	NS		
			ELPT	2	NS		
	ovaries, presence/ absence	N/A	PCHR	136	NS	see number	see number
			ARCS	95	NS		
			LKWT	36	NS		
			BDWT	30	NS		
			LSCS	89	NS		
			INCO	17	NS		
			RNSM	108	NS		
			SFCD	19	NS		
			BRBT	7	NS		
			ELPT	47	NS		
			BLPB	77	NS		
			SLEB	27	NS		
			ARFL	42	NS		
			STFL	49	NS		
	ovaries, relative developmental stage	N/A	PCHR	136	NS	see number	see number
			ARCS	95	NS		
			LKWT	36	NS		
			BDWT	30	NS		
			LSCS	89	NS		
			INCO	17	NS		
			RNSM	108	NS		
			SFCD	19	NS		
			BRBT	7	NS		
			ELPT	47	NS		
			BLPB	77	NS		
			SLEB	27	NS		
			ARFL	42	NS		
			STFL	49	NS		
	ovaries, weight	g	PCHR	103	NS	see number	see number
			ARCS	77	NS		
			LKWT	26	NS		
			BDWT	24	NS		
			LSCS	58	NS		
			INCO	12	NS		
			RNSM	3	NS		
			SFCD	4	NS		
			ARFL	1	1		
	Food:						
	gut contents, volume	ml?	PCHR	35	NS	see number	see number
			ARCS	44	NS		
			LKWT	23	NS		
			BDWT	26	NS		
			LSCS	25	NS		
			INCO	17	NS		
			RNSM	18	NS		
			SFCD	49	NS		
			ELPT	20	NS		
			BLPB	43	NS		
			SLEB	27	NS		
			ARFL	26	NS		
			STFL	21	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	electronic balance	NS	NS	2	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	electronic balance	NS	NS	2	
see number	10% formalin for several days and then transferred to 70% ethanol in whirlpaks	NS	NS	NS	2	Unanalyzed samples exist for listed species and also for ARCD and BRBT.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
81-0031 Cont'd	gut contents, identification	N/A	PCHR	35	NS	see number	see number
			ARCS	44	NS		
			LKWT	23	NS		
			BDWT	26	NS		
			LSCS	25	NS		
			INCO	17	NS		
			RNSM	18	NS		
			SFCD	49	NS		
			ELPT	20	NS		
			BLPB	43	NS		
			SLEB	27	NS		
			ARFL	26	NS		
			STFL	21	NS		
	Movements:						
	# of fish tagged	ones	ARCS	57	NS	Beamish trap net	see number
			LKWT	272	NS		
			BDWT	83	NS		
			LSCS	348	NS		
	# of fish recaptured	ones	LKWT	1	1	Beamish trap net	see number
			BDWT	1	1		
	direction of movement	N/A	PCHR	12	NS	Beamish trap net	see number
			ARCS	439	NS		
			LKWT	1449	NS		
			BDWT	259	NS		
			LSCS	1559	NS		
			INCO	5	NS		
			PDSM	14	NS		
			RNSM	177	NS		
			NRPK	1	1		
			LNSK	2	NS		
			SFCD	101	NS		
			BRBT	69	NS		
			BLPB	2	NS		
			FHSC	145	NS		
			NSSB	1	1		
			ARFL	184	NS		
			STFL	85	NS		
82-0105	Number:						
	In gillnet	ones (#/h)	PCHR	66?	29?	a) Swedish gillnet	a) multifilament nylon; 60x1.8 m; six - 10 m panels of 10, 19,33,45,55 and 60 mm mesh sizes (bar mesh measure)
			ARCS				
			BDWT				
			LSCS				
			CHAR				
			FHSC				
			ARFL				
			OTHER				
						b) monofilament nylon gillnet	b) 32x3 m; one panel of 65 mm mesh size (bar mesh measure)

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	10% formalin for several days and then transferred to 70% ethanol in whirlpaks	NS	N/A	N/A	N/A	Unanalyzed samples exist for listed species and also for ARCD and BRBT.
see number	none, fish tagged on site	fish marked with a branding iron powered by battery	N/A	N/A	N/A	
see number			N/A	N/A	N/A	Two tagged specimens were captured in a related Department of Fisheries and Oceans study on the freshwater systems flowing into Tuktoyaktuk Harbour (Bond and Erickson 1985)
see number			N/A	N/A	N/A	Nets were set in pairs so that fish were captured from one direction in each net of the pair.
most sets perpendicular to shore; depth: 0-11.5 m; set duration: 0.25-47 h	none, analysis on site	counted by ones	NS	NS	4	From catch records 61 sets were determined. Progress report gives 66 sets in one section and 92 elsewhere.

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
82-0105 Cont'd	counted from sonar scan	-	-	-	see remarks	echo sounder	Si-Tex/Honda model HE106 sounder unit; Si-Tex 1900 (50KHz, Dual Element, 20 degree beam, fore and aft with 40 degree thwartships) transponder
	Identification	N/A	PCHR	4	NS	gillnet	see number
			ARCS	46	NS		
			BDWT	5	NS		
			LSCS	38	NS		
			CHAR	115	NS		
			FHSC	76	NS		
			ARFL	1	NS		
			OTHER[1]	2	NS		
	Morphometrics: length, total	mm	FHSC	73	NS	gillnet	see number
			ARFL	1	1		
	length, fork	mm	PCHR	4	NS	gillnet	see number
			ARCS	46	NS		
			BDWT	5	NS		
			LSCS	38	NS		
			CHAR	115	NS		
			OTHER	2	NS		
	weight	g	PCHR	4	NS	gillnet	see number
			ARCS	43	NS		
			BDWT	5	NS		
			LSCS	38	NS		
			CHAR	115	NS		
			FHSC	73	NS		
			ARFL	1	1		
			OTHER	NS	NS		
	Age: # of annuli, scale	years	PCHR	4	NS	gillnet	see number
			ARCS	43	NS		
			BDWT	5	NS		
			LSCS	36	NS		
			CHAR	84	NS		
	Reproduction: testes, presence/ absence	N/A	PCHR	1	1	gillnet	see number
			ARCS	27	NS		
			BDWT	2	NS		
			LSCS	12	NS		
			CHAR	34	NS		
			FHSC	10	NS		
			OTHER	1	1		
	testes, relative developmental stage	N/A	PCHR	1	1	gillnet	see number
			ARCS	27	NS		
			BDWT	2	NS		
			LSCS	12	NS		
			CHAR	34	NS		
			FHSC	10	NS		
			OTHER	1	1		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
traverses parallel and perpendicular to shore; depth: to 12 m?; cruising speed 3-4 knots	depth sounding charts	-	see remarks	see remarks	2	The extent of extraneous side lobes around the beam estimated and the sounder's signal calibrated under field conditions. Traverses totalled more than 198 km. Three parallel transects, oriented N-S at right angles to shoreline, spaced 100 m apart established at Kay Pt., King Pt., and Shingle Pt.
see number	none; analysis on site	NS	N/A	N/A	N/A	[1] Identified as surf smelt (Hypomesus pretiosus).
see number	none, analysis on site	NS	N/A	N/A	3	
see number	none, analysis on site	NS	N/A	N/A	3	
see number	none, analysis on site	NS	N/A	N/A	2	
see number	dry in scale envelopes	NS	NS	NS	1,3	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6 (immature) to 10 (spent); Note 16	NS	NS	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
82-0105 Cont'd	ovaries, presence/ absence	N/A	PCHR	3	NS	gillnet	see number
			ARCS	13	NS		
			BDWT	2	NS		
			LSCS	22	NS		
			CHAR	67	NS		
			FHSC	17	NS		
			ARFL	1	1		
			OTHER	1	1		
	ovaries, relative developmental stage	N/A	PCHR	3	NS	gillnet	see number
			ARCS	13	NS		
			BDWT	2	NS		
			LSCS	22	NS		
			CHAR	67	NS		
			FHSC	17	NS		
			ARFL	1	1		
			OTHER	1	1		
	Food:						
	gut contents, identification	N/A	CHAR	3	NS	gillnet	see number
	Movements:						
	direction of movement	N/A	PCHR	4	NS	gillnet	see number
			ARCS	35	NS		
			BDWT	3	NS		
			LSCS	24	NS		
			CHAR	103	NS		
			FHSC	11	NS		
			OTHER	2	NS		
82-0111	Number:						
	in gillnet	ones (# herring /100 m /24 h)	PCHR	2	1	gillnet	35 m long; 64 mm mesh size (stretched mesh measure)
			ARCS				
			LKWT				
			BDWT				
			LSCS				
			INCO				
			SFCD				
			FHSC				
	in gillnet	ones (# herring /100 m /24 h)	PCHR	72	23	commercial herring gillnet	monofilament nylon; length 10-100 m; depth 4 m; 57 or 64 mm mesh sizes (stretched mesh measure); shaker panel of larger mesh size in the mid-section of each net
			ARCS				
			LKWT				
			LSCS				
			LKTR				
			ARCD				
			SFCD				
			FHSC				
			STFL				
	identification	N/A	PCHR	3506	NS	see number	see number
			ARCS	252	NS		
			LKWT	168	NS		
			BDWT	37	NS		
			LSCS	17	NS		
			INCO	3	NS		
			LKTR	20	NS		
			ARCD	61	NS		
			SFCD	323	NS		
			FHSC	337	NS		
			STFL	14	NS		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	2	
see number	none, analysis on site	see remarks	N/A	N/A	N/A	1 stomach empty, 1 with a sculpin, 1 full of Crustea.
see number	none, analysis on site	east or west direction noted when fish retrieved from gillnets	N/A	N/A	N/A	
depth: 4 m; set duration: 8 and 27 h	none, analysis on site	counted by ones	NS	NS	4	
depth: 2-30 m; set duration: 14-60 h; set under ice, in cracks during break-up, and finally in open water during the course of the study	none, analysis on site	counted by ones	NS	NS	4	Only 2 sets with 57 mm mesh size.
see number	none, analysis on site	refer to Hart (1973); Scott and Crossman (1973)	N/A	N/A	N/A	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
82-0111 Cont'd	Morphometrics:						
	length, standard	mm	PCHR	343	NS	see number	see number
	weight	g	PCHR	343	NS	see number	see number
	Age:						
	# of annuli, otolith	years	PCHR	304	NS	see number	see number
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	107	NS	see number	see number
	testes, relative developmental stage	N/A	PCHR	107	NS	see number	see number
	ovaries, presence/ absence	N/A	PCHR	236	NS	see number	see number
	ovaries, relative developmental stage	N/A	PCHR	236	NS	see number	see number
	ovaries, weight	g	PCHR	254	NS	see number	see number
82-0112	Number:						
	in seine	ones	Adults/Juveniles: LKWT BDWT LSCS INCO FHSC NSSB ARFL STFL	36	7	beach seine	a) 12x0.85 m fine mesh size
			Larvae: RNSM FHSC OTHER^1				b) 12x1.4 m; 6.4 mm mesh size
	caught by plankton net	ones (#/ 100 m^3)	PCHR RNSM ARCD SFCD FHSC STFL OTHER^1	208?	13	Wisconsin plankton net	0.5 m diameter, 760 um mesh size; 5.5 kg cable depressor attached by 1 m line, 1 m in front of net; centre mounted General Oceanics Digital

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	to nearest mm	NS	NS	3	
see number	none, analysis on site	to nearest 10 g	NS	NS	2	
see number	scale envelopes	otoliths lightly ground on fine carborundum stone, cleaned in 3:1 solution of benzyl-benzoate and methyl salicylate, placed in a depression slide and counted with aid of a dissecting microscope (X30)	NS	NS	4	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6(immature) to 10 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	to nearest g	NS	NS	2	
	Adults/Juveniles: none, analysis on site	counted by ones	NS	NS	2	
	Larvae: preserved in 5% non-buffered formalin	counted by ones	NS	NS	2	[1]Coregonids
horizontal tows from Boston whaler; depth: 0-10.5 m; tow duration: usually 5 min.; tow velocity:	preserved immediately in a non-buffered formalin solution, then transferred within 24 h to 5% non-buffered formalin in dark glass bottles	counted by ones	NS	NS	4	[1]Other - stichaeids.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
82-0112 Cont'd	caught by plankton net cont'd						Flowmeter (Model #2030)
	caught by plankton net	ones (#/ 100 m^3)	RNSM	6	3	Wisconsin plankton net	above net, without flow-meter, mounted on a sled
	Identification	N/A	Adults/Juveniles:				
			ARCS	60	5	beach seine	see number
			LKWT	28	5		
			BDWT	10	4		
			LSCS	183	7		
			INCO	3	3		
			FHSC	8	5		
			NSSB	NS	NS		
			ARFL	4	2		
			STFL	4	2		
			Larvae:				
			PCHR	91	11	Wisconsin plankton net	see number
			RNSM	1195	13		
			ARCD	6	3		
			SFCD	37	3		
			FHSC	9	4		
			STFL	21	2		
			OTHER[1]	8	2		
	Morphometrics: length, total	mm	Adults/Juveniles:				
			FHSC	8	5	beach seine	see number
			NSSB	1	1		
			ARFL	4	2		
			STFL	4	2		
			Larvae:				
			PCHR	97	12	Wisconsin plankton net	see number
			RNSM	171	12		
			ARCD	4	3		
			SFCD	34	3		
			FHSC	29	5		
			STFL	21	2		
			OTHER	8	2		

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
usually 1.0 m/sec						
depth: bottom	preserved immediately in a non-buffered formalin solution, then transferred within 24 h to 5% non-buffered formalin in dark glass bottles	counted by ones	NS	NS	2	
see number	Adults/Juveniles: none, analysis on site	NS	N/A	N/A	N/A	
see number	Larvae: preserved immediately in a non-buffered formalin solution, then transferred within 24 h to 5% non-buffered formalin in dark glass bottles	Larvae: identified primarily by morphological characteristics and melanophore pigmention; a number of sources are cited including Rass (1949), Orcutt (1950), Yusa (1957), Stevenson (1962), Taylor (1964), Khan and Faber (1974), and Faber (1976); D.J. Faber, National Museum of Canada, verified identification of FHSC and other species to family	N/A	N/A	N/A	[1]Other - unidentified stichaeids.
see number	Adults: none; analysis on site	to nearest mm with fish measuring board, with metre stick	NS	NS	3	
see number	Larvae: preserved immediately in a non-buffered formalin solution, then transferred within 24 h to 5% non-buffered formalin in dark bottles	with ocular micrometer to 0.1 mm (on specimens ≤18 mm); to nearest 0.5 mm (on specimens >18 mm)	NS	NS	3	Sample sizes for PCHR, RNSM, and FHSC include juveniles captured by seine.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
82-0112 Cont'd	length, fork		Adults/Juveniles:				
		mm	ARCS	60	5	beach seine	see number
			LKWT	28	5		
			BDWT	10	4		
			LSCS	183	7		
			INCO	3	3		
82-0113	Number:						
	In commercial fishery	ones	CHAR	NS	1	gillnet	139 mm mesh size
	Identification	N/A	CHAR	168	1	gillnet	139 mm mesh size
	Morphometrics:						
	length, fork	mm	CHAR	130	1	gillnet	139 mm mesh size
	weight	g	CHAR	130	1	gillnet	139 mm mesh size
	Age:						
	# of annuli, otolith	years	CHAR	118	1	gillnet	139 mm mesh size
	Reproduction:						
	testes, presence/ absence	N/A	CHAR	57	1	gillnet	139 mm mesh size
	ovaries, presence/ absence	N/A	CHAR	72	1	gillnet	139 mm mesh size
83-0059	Number:						
	In gillnet	ones (# herring /100 m /24 h)	PCHR ARCS LKWT BDWT LSCS SFCD FHSC STFL	4	3	commercial herring gillnet	monofilament nylon; length: 10-100 m; depth: 4 m; 64 mm mesh size (stretched mesh measure); shaker panel of larger mesh size in the mid-section of each net
	In commercial fishery	boxes (# herring /100 m /24 h)	PCHR[1]	111	19	commercial herring gillnet	monofilament nylon; length: 10-100 m; depth: 4 m; 64 mm mesh size (stretched mesh measure); shaker panel of larger mesh

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	to nearest mm on measuring board, with metre stick	NS	NS	3	
NS	none, analysis on site	counted by ones	NS	NS	2	Catch and effort data recorded by field officer.
NS	none, analysis on site	NS	N/A	N/A	N/A	Data collected by field officer.
NS	none, analysis on site	NS	NS	NS	3	Data collected by field officer.
NS	none, analysis on site	NS; round weight measured	NS	NS	2	Data collected by field officer.
NS	dry in envelopes	ground on a carborundum stone; immersed in a 3:1 solution of benzyl-benzoate and methyl salicylate on a depression slide, and annuli counted with aid of a dissecting microscope by G.W. Carder; method of Grainger (1953)	NS	NS	4	Otoliths data collected by field officer.
NS	none, analysis on site	gross examination	N/A	N/A	N/A	Data collected by field officer.
NS	none, analysis on site	gross examination	N/A	N/A	N/A	Data collected by field officer.
depth: 2-8 m; open water sets	none, analysis on site	counted by ones	NS	NS	2	
set duration: 45-280 h; set under ice and in cracks during break-up	none, analysis on site	the number of boxes of herring/net were counted. An average of 220 herring/box was estimated	NS	NS	2	[1]No information on other species.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
83-0059 Cont'd	Identification	N/A	PCHR	573	NS	commercial	see number
			ARCS	66	NS		
			LKWT	7	NS		
			BDWT	4	NS		
			LSCS	13	NS		
			SFCD	4	NS		
			FHSC	4	NS		
			STFL	2	NS		
	Morphometrics:						
	length, standard	mm	PCHR	111	NS	commercial herring gillnet	see number
	weight	g	PCHR	111	NS		see number
	Age:						
	# of annuli, otolith	years	PCHR	111	NS	commercial herring gillnet	see number
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	36	NS	commercial herring gillnet	see number
	testes, relative developmental stage	N/A	PCHR	36	NS	commercial herring gillnet	see number
	ovaries, presence/ absence	N/A	PCHR	75	NS	commercial herring gillnet	see number
	ovaries, relative developmental stage	N/A	PCHR	74	NS	commercial herring gillnet	see number
	ovaries, weight	g	PCHR	4477	NS	commercial herring gillnet	see number
83-0060	Identification	N/A	CHAR	NS	2	a) gillnet b) gillnet	a) 139 mm mesh size b) minimum of 139 mm mesh size
	Morphometrics:						
	length, fork	mm	CHAR	231	2	see identification	see identification

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	to nearest mm on measuring board, with metre stick	NS	NS	3	
NS	none, analysis on site	counted by ones	NS	NS	2	Catch and effort data recorded by field officer.
NS	none, analysis on site	NS	N/A	N/A	N/A	Data collected by field officer.
NS	none, analysis on site	NS	NS	NS	3	Data collected by field officer.
NS	none, analysis on site	NS; round weight measured	NS	NS	2	Data collected by field officer.
NS	dry in envelopes	ground on a carborundum stone; immersed in a 3:1 solution of benzyl-benzoate and methyl salicylate on a depression slide, and annuli counted with aid of a dissecting microscope by G.W. Carder; method of Grainger (1953)	NS	NS	4	Otoliths data collected by field officer.
NS	none, analysis on site	gross examination	N/A	N/A	N/A	Data collected by field officer.
NS	none, analysis on site	gross examination	N/A	N/A	N/A	Data collected by field officer.
depth: 2-8 m; open water sets	none, analysis on site	counted by ones	NS	NS	2	
set duration: 45-280 h; set under ice and in cracks during break-up	none, analysis on site	the number of boxes of herring/net were counted. An average of 220 herring/box was estimated	NS	NS	2	[1]No information on other species.

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
83-0059 Cont'd	identification	N/A	PCHR	573	NS	commercial	see number
			ARCS	66	NS		
			LKWT	7	NS		
			BDWT	4	NS		
			LSCS	13	NS		
			SFCD	4	NS		
			FHSC	4	NS		
			STFL	2	NS		
	Morphometrics:						
	length, standard	mm	PCHR	111	NS	commercial herring gillnet	see number
	weight	g	PCHR	111	NS		see number
	Age:						
	# of annuli, otolith	years	PCHR	111	NS	commercial herring gillnet	see number
	Reproduction:						
	testes, presence/ absence	N/A	PCHR	36	NS	commercial herring gillnet	see number
	testes, relative developmental stage	N/A	PCHR	36	NS	commercial herring gillnet	see number
	ovaries, presence/ absence	N/A	PCHR	75	NS	commercial herring gillnet	see number
	ovaries, relative developmental stage	N/A	PCHR	74	NS	commercial herring gillnet	see number
	ovaries, weight	g	PCHR	447?	NS	commercial herring gillnet	see number
83-0060	identification	N/A	CHAR	NS	2	a) gillnet b) gillnet	a) 139 mm mesh size b) minimum of 139 mm mesh size
	Morphometrics:						
	length, fork	mm	CHAR	231	2	see identification	see identification

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number	none, analysis on site	refer to: Hart (1973), Scott and Crossman (1973)	N/A	N/A	N/A	Data from commercial fishery not included. Approximately 165 boxes or 37 097 PCHR were captured commercially.
see number	none, analysis on site	to nearest mm	NS	NS	3	
see number	none, analysis on site	to nearest 10 g	NS	NS	2	
see number	scale envelopes	otolith lightly ground on fine carborundum stone, cleaned in 3:1 solution of benzyl-benzoate and methyl salicylate, placed in a depression slide and counted with aid of a dissecting microscope (X30)	NS	NS	4	
see number	none, analysis on site	gross examination	N/A	N/A	N/A	
see number	none, analysis on site	gonads classified as: 6 (immature) to 10 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	gross examination	NS	NS	N/A	
see number	none, analysis on site	gonads classifed as: 1 (immature) to 5 (spent); Note 16	NS	NS	3	
see number	none, analysis on site	to nearest g	NS	NS	2	
a) NS b) NS	on site (test fishery) or in the community of Holman Is. during transit to Inuvik	NS; identified by fishermen	N/A	N/A	N/A	
NS	on site (test fishery) or in the community of Holman Is. during transit to Inuvik	NS	N/A	N/A	2	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
83-0060 Cont'd	weight	g	CHAR	231[1]	2	see identification	see identification
	Age: # of annuli, otolith	years	CHAR	154	2	see identification	see identification
	Movements: # of fish tagged	ones	CHAR	31	1	see identification	139 mm mesh size but some 114 mm mesh size gillnets also utilized
	# of fish recaptured	ones	CHAR	6	3	see identification	NS
84-0032	Number: in trawl	ones	ARCD ASSC RBSC ARAF	31	10	otter trawl	NS
	caught by plankton net	ones	RNSM ARCD ASSC FHSC RBSC OTHER[1]	33	228	a) Wisconsin plankton net	a) mouth diameter 0.5 m; 750 um mesh size; 5.5 kg bronze cable depressor; equipped with General Oceanics, Inc., Digital flowmeter (Model #2030)
				16	11	b) neuston net	b) NS

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
NS	on site (test fishery) or in the community of Holman Is. during transit to Inuvik	round weight measured on site and dressed weight (gills and viscera removed) during transit	N/A	N/A	2	[1] Round weight measured on 137 specimens and dressed weight on 94 specimens.
NS	dry in scale envelopes	ground on a carborundum stone; immersed in a 3:1 solution of benzyl-benzoate and methyl salicylate on a depression slide, and annuli counted with aid of a dissecting microscope by G.W. Carder; method of Grainger (1953)	NS	NS	4	
NS	none	Floy tags anchored between the pterygiophores at the posterior base of the dorsal fin	N/A	N/A	N/A	Captured, tagged, and released during 23-30 August near test fishery site.
NS	-	-	N/A	N/A	N/A	Tagged CHAR were recaptured of Safety Channel, Kagloryuak R. and from subsistence fishery on the Kuujjua R.
depth: 10-50 m; tow duration: 10-40 min; tow speed: 2 knots	NS	counted by ones	NS	NS	4	List of species incomplete.
depth: 1.5-14 m; tow duration: 10-40 min., tow speed: NS	NS	counted by ones	NS	NS	4	[1] See identification.
depth: surface; tow duration: 13-57 min., tow speed: NS	NS	counted by ones	NS	NS	4	

Data Table 2 Continued

Data Set No.	Measurement Parameter	Units	Species	No. of Samples	No. of Stations	Gear Type	Gear Description
84-0032 Cont'd	Identification	N/A	Adults/ Juveniles[1]:			a) otter trawl	see number
			ARCD				
			ASSC				
			RBSC				
			ARAF				
			Larvae:				
			RNSM	4	NS	b) Wisconsin plankton net; neuston net	see number
			ARCD	1309	NS		
			ASSC	23	NS		
			FHSC	17	NS		
			RBSC	1	1		
			OTHER[2]				
	Morphometrics:						
	length, fork	mm	ARCD	305	NS	otter trawl	see number
	Food:						
	gut contents, number of individuals	ones	ARCD	132	NS	otter trawl	see number
	gut contents, identification	N/A	ARCD	132	NS	otter trawl	see number

Gear Deployment	Sample Storage	Sample Analysis	Precision	Accuracy	Data Rating	Remarks
see number		McAllister (1960)	N/A	N/A	N/A	[1]Incomplete list of species.
			N/A	N/A	N/A	[2]Unidentified Stichaeidae (n=4), Agonidae (n=1), and Cyclopteridae (n=9) as well as a large number of damaged and unidentifiable larvae.
see number		larvae identified by R.A. Ratynski; reference sources: Khan (1971), Dunn and Vinter (1984), Ratynski (1983), (Fahay 1983). J.R. Dunn, National Marine Fisheries Service, Seattle, verified identification of ARCD				
see number		NS	NS	NS	2	
see number		NS	NS	NS	2	Includes empty stomachs.
see number		identified to species	NS	NS	N/A	Includes empty stomachs.

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